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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	300	(differen$6 near2 storage) and (page adj table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/01 06:46
L2	246	1 and (@AD <= "20030630" or @RLAD <= "20030630")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/01 06:47
L3	188	2 and allocat$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/01 06:48
L4	10	(difference near2 storage) and (page adj table)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/01 06:49
L5	1	2 and (difference near2 storage) same allocat$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/01 06:49
L6	8	2 and (differen$6 near2 storage) same allocat$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/01 06:50

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(("storage" "page table" "difference"))

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1   Managing Distributed, Shared L2 Caches through OS-Level Page Allocation
Sangyeun Cho, Lei Jin
December 2006 **MICRO 39:** Proceedings of the 39th Annual IEEE/ACM International Symposium on Microarchitecture
Publisher: IEEE Computer Society

Full text available: 🔁 pdf(471.64 KB)   Additional Information: full citation, abstract, index terms

> This paper presents and studies a distributed L2 cache management approach through OS-level page allocation for future many-core processors. L2 cache management is a crucial multicore processor design aspect to overcome non-uniform cache access latency ...

2   Unbounded page-based transactional memory
Weihaw Chuang, Satish Narayanasamy, Ganesh Venkatesh, Jack Sampson, Michael Van Biesbrouck, Gilles Pokam, Brad Calder, Osvaldo Colavin
October 2006 **ASPLOS-XII: ACM SIGOPS Operating Systems Review,** Volume 40 Issue 5
Publisher: ACM

Full text available: 🔁 pdf(242.68 KB)   Additional Information: full citation, abstract, references, index terms

> Exploiting thread level parallelism is paramount in the multicore era. Transactions enable programmers to expose such parallelism by greatly simplifying the multi-threaded programming model. Virtualized transactions (unbounded in space and time) are ...

Keywords: concurrency, parallel programming, transactional memory, transactions, virtual memory

3   Unbounded page-based transactional memory
Weihaw Chuang, Satish Narayanasamy, Ganesh Venkatesh, Jack Sampson, Michael Van Biesbrouck, Gilles Pokam, Brad Calder, Osvaldo Colavin
October 2006 **ASPLOS-XII: ACM SIGARCH Computer Architecture News,** Volume 34 Issue 5

Publisher: ACM

Full text available: 🔲 pdf(242.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

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Keywords: concurrency, parallel programming, transactional memory, transactions, virtual memory

4   <u>Data page layouts for relational databases on deep memory hierarchies</u>
Anastassia Ailamaki, David J. DeWitt, Mark D. Hill
November 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**,   Volume 11 Issue 3
Publisher: Springer-Verlag New York, Inc.

Full text available: 🔲 pdf(593.86 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

Relational database systems have traditionally optimized for I/O performance and organized records sequentially on disk pages using the N-ary Storage Model (NSM) (a.k.a., slotted pages). Recent research, however, indicates that cache utilization ...

Keywords: Cache-conscious database systems, Disk page layout, Relational data placement

5   <u>Unbounded page-based transactional memory</u>
Weihaw Chuang, Satish Narayanasamy, Ganesh Venkatesh, Jack Sampson, Michael Van Biesbrouck, Gilles Pokam, Brad Calder, Osvaldo Colavin
November 2006 **ASPLOS-XII: ACM SIGPLAN Notices**,   Volume 41 Issue 11
Publisher: ACM

Full text available: 🔲 pdf(242.68 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Exploiting thread level parallelism is paramount in the multicore era. Transactions enable programmers to expose such parallelism by greatly simplifying the multi-threaded programming model. Virtualized transactions (unbounded in space and time) are ...

Keywords: concurrency, parallel programming, transactional memory, transactions, virtual memory

6   <u>The interval page table: virtual memory support in real-time and memory-constrained embedded systems</u>
Xiangrong Zhou, Peter Petrov
September 2007 **SBCCI '07:** Proceedings of the 20th annual conference on Integrated circuits and systems design
Publisher: ACM

Full text available: 🔲 pdf(137.62 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We present a novel page table organization for real-time and memory-constrained embedded systems. Increasingly many high-end embedded processors offer virtual memory support in the form of hardware Memory Management Unit. To implement virtual memory ...

Keywords: memory management, page table, real-time embedded systems

7 The Importance of Prior Probabilities for Entry Page Search

Wessel Kraaij, Thijs Westerveld, Djoerd Hiemstra
August 2002 **SIGIR '02:** Proceedings of the 25th annual international ACM SIGIR conference on Research and development in information retrieval
Publisher: ACM

Full text available: pdf(135.87 KB)   Additional Information: full citation, abstract, references, cited by, index terms

An important class of searches on the world-wide-web has the goal to find an entry page (homepage) of an organisation. Entry page search is quite different from Ad Hoc search. Indeed a plain Ad Hoc system performs disappointingly. We explored three non-content ...

Keywords: URLs, entry page search, language models, links, parameter estimation, prior probabilities

8 Unbounded page-based transactional memory

Weihaw Chuang, Satish Narayanasamy, Ganesh Venkatesh, Jack Sampson, Michael Van Biesbrouck, Gilles Pokam, Brad Calder, Osvaldo Colavin
October 2006 **ASPLOS-XII:** Proceedings of the 12th international conference on Architectural support for programming languages and operating systems
Publisher: ACM

Full text available: pdf(242.68 KB)   Additional Information: full citation, abstract, references, index terms

Exploiting thread level parallelism is paramount in the multicore era. Transactions enable programmers to expose such parallelism by greatly simplifying the multi-threaded programming model. Virtualized transactions (unbounded in space and time) are ...

Keywords: concurrency, parallel programming, transactional memory, transactions, virtual memory

9 SWL: a search-while-load demand paging scheme with NAND flash memory

Jihyun In, Ilhoon Shin, Hyojun Kim
July 2007 **LCTES '07: ACM SIGPLAN Notices**, Volume 42 Issue 7
Publisher: ACM

Full text available: pdf(417.98 KB)   Additional Information: full citation, abstract, references, index terms

As mobile phones become increasingly multifunctional, the number and size of applications installed in phones are rapidly increasing.

Consequently, mobile phones require more hardware resources such as NOR/NAND flash memory and DRAM, and their production ...

Keywords: NAND flash memory, demand paging, page fault handler, page replacement, parallelization

10 SWL: a search-while-load demand paging scheme with NAND flash memory

Jihyun In, Ilhoon Shin, Hyojun Kim

June 2007 **LCTES '07:** Proceedings of the 2007 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools

Publisher: ACM

Full text available: pdf(417.98 KB)   Additional Information: full citation, abstract, references, index terms

As mobile phones become increasingly multifunctional, the number and size of applications installed in phones are rapidly increasing. Consequently, mobile phones require more hardware resources such as NOR/NAND flash memory and DRAM, and their production ...

Keywords: NAND flash memory, demand paging, page fault handler, page replacement, parallelization

11 Path: page access tracking to improve memory management

Reza Azimi, Livio Soares, Michael Stumm, Thomas Walsh, Angela Demke Brown

October 2007 **ISMM '07:** Proceedings of the 6th international symposium on Memory management

Publisher: ACM

Full text available: pdf(349.07 KB)   Additional Information: full citation, abstract, references, index terms

Traditionally, operating systems use a coarse approximation of memory accesses to implement memory management algorithms by monitoring page faults or scanning page table entries. With finer-grained memory access information, however, the operating system ...

Keywords: page access tracking, page re-, translation lookaside buffer

12 Measuring and characterizing end-to-end Internet service performance

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Publisher: ACM

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Fundamental to the design of reliable, high-performance network services is an understanding of the performance characteristics of the service as perceived by the client population as a whole. Understanding and measuring such end-to-end service performance ...

Keywords: End-to-end service performance, QoS, network packet

traces, passive monitoring, reconstruction of web page composition, web site performance

13 A flexible data to L2 cache mapping approach for future multicore processors

Lei Jin, Hyunjin Lee, Sangyeun Cho

October 2006 **MSPC '06:** Proceedings of the 2006 workshop on Memory system performance and correctness

Publisher: ACM

Full text available: pdf(568.80 KB)   Additional Information: full citation, abstract, references, index terms

This paper proposes and studies a distributed L2 cache management approach through page-level data to cache slice mapping in a future processor chip comprising many cores. L2 cache management is a crucial multicore processor design aspect to overcome ...

Keywords: non-uniform cache architecture (NUCA), page allocation

14 A superblock-based flash translation layer for NAND flash memory

Jeong-Uk Kang, Heeseung Jo, Jin-Soo Kim, Joonwon Lee

October 2006 **EMSOFT '06:** Proceedings of the 6th ACM & IEEE International conference on Embedded software

Publisher: ACM

Full text available: pdf(487.09 KB)   Additional Information: full citation, abstract, references, index terms

In NAND flash-based storage systems, an intermediate software layer called a flash translation layer (FTL)is usually employed to hide the erase-before-write characteristics of NAND flash memory. This paper proposes a novel superblockbased FTL scheme, ...

Keywords: NAND flash memory, address translation, flash translation layer (FTL)

15 Geiger: monitoring the buffer cache in a virtual machine environment

Stephen T. Jones, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2006 **ASPLOS-XII: ACM SIGARCH Computer Architecture News,** Volume 34 Issue 5

Publisher: ACM

Full text available: pdf(326.97 KB)   Additional Information: full citation, abstract, references, index terms

Virtualization is increasingly being used to address server management and administration issues like flexible resource allocation, service isolation and workload migration. In a virtualized environment, the virtual machine monitor (VMM) is the primary ...

Keywords: inference, virtual machine

16

Tradeoffs in transactional memory virtualization

JaeWoong Chung, Chi Cao Minh, Austen McDonald, Travis Skare, Hassan

Chafi, Brian D. Carlstrom, Christos Kozyrakis, Kunle Olukotun
October 2006 **ASPLOS-XII: ACM SIGOPS Operating Systems Review,**
Volume 40 Issue 5
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(325.77 KB)   references, cited by, index
terms

For transactional memory (TM) to achieve widespread acceptance,
transactions should not be limited to the physical resources of any
specific hardware implementation. TM systems should guarantee correct
execution even when transactions exceed scheduling ...

Keywords: OS support, chip multi-processor, transactional memory,
virtualization

17 Tradeoffs in transactional memory virtualization
JaeWoong Chung, Chi Cao Minh, Austen McDonald, Travis Skare, Hassan
Chafi, Brian D. Carlstrom, Christos Kozyrakis, Kunle Olukotun
October 2006 **ASPLOS-XII:** Proceedings of the 12th international
conference on Architectural support for programming
languages and operating systems
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(325.77 KB)   references, cited by, index
terms

For transactional memory (TM) to achieve widespread acceptance,
transactions should not be limited to the physical resources of any
specific hardware implementation. TM systems should guarantee correct
execution even when transactions exceed scheduling ...

Keywords: OS support, chip multi-processor, transactional memory,
virtualization

18 Getting work done on the web: supporting transactional queries
Yunyao Li, Rajasekar Krishnamurthy, Shivakumar Vaithyanathan, H. V.
Jagadish
August 2006 **SIGIR '06:** Proceedings of the 29th annual international ACM
SIGIR conference on Research and development in information
retrieval
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(257.24 KB)   references, index terms

Many searches on the web have a transactional intent. We argue that
pages satisfying transactional needs can be distinguished from the more
common pages that have some information and links, but cannot be used
to execute a transaction. Based on this ...

Keywords: information extraction, intranet search, transactional search

19 Object prefetching using semantic links
Alexander P. Pons
January 2006 **ACM SIGMIS Database,** Volume 37 Issue 1

Publisher: ACM

Full text available: pdf(1.31 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

To date the most common means of gaining access to the Internet continues to be via dial-up modem connections. These slow communication channels significantly affect the rendering of the majority of web pages. Higher speed communications channels can ...

Keywords: semantic links, web-application, web-prefetching

20   <u>Stasis: flexible transactional storage</u>
Russell Sears, Eric Brewer
November 2006 **OSDI '06:** Proceedings of the 7th symposium on Operating systems design and implementation
Publisher: USENIX Association

Full text available: pdf(492.74 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

An increasing range of applications requires robust support for atomic, durable and concurrent transactions. Databases provide the default solution, but force applications to interact via SQL and to forfeit control over data layout and access mechanisms. ...

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21 Approximating the optimal replacement algorithm
Ben Juurlink
April 2004 **CF '04:** Proceedings of the 1st conference on Computing frontiers
Publisher: ACM

Full text available: 🔲 pdf(208.67 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

LRU is the de facto standard page replacement strategy. It is well-known, however, that there are many situations where LRU behaves far from optimal. We present a replacement policy that approximates the optimal algorithm OPT more closely by *predicting* ...

Keywords: LRU, OPT, paging, replacement strategy, virtual memory

22 Dynamic data scratchpad memory management for a memory subsystem with an MMU
Hyungmin Cho, Bernhard Egger, Jaejin Lee, Heonshik Shin
June 2007 **LCTES '07:** Proceedings of the 2007 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools
Publisher: ACM

Full text available: 🔲 pdf(405.94 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we propose a dynamic scratchpad memory (SPM) management technique for a horizontally-partitioned memory subsystem with an MMU. The memory subsystem consists of a relatively cheap direct-mapped data cache and SPM. Our technique loads required ...

Keywords: compilers, demand paging, horizontally-partitioned memory, post-pass optimization, scratchpad memory

23 Tradeoffs in transactional memory virtualization
JaeWoong Chung, Chi Cao Minh, Austen McDonald, Travis Skare, Hassan Chafi, Brian D. Carlstrom, Christos Kozyrakis, Kunle Olukotun
October 2006 **ASPLOS-XII: ACM SIGARCH Computer Architecture News**, Volume 34 Issue 5

Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,
Full text available: <u>pdf(325.77 KB)</u> <u>references</u>, <u>cited by</u>, <u>index</u>
<u>terms</u>

For transactional memory (TM) to achieve widespread acceptance, transactions should not be limited to the physical resources of any specific hardware implementation. TM systems should guarantee correct execution even when transactions exceed scheduling ...

Keywords: OS support, chip multi-processor, transactional memory, virtualization

24 <u>Improving query I/O performance by permuting and refining block</u>
<u>request sequences</u>
Xiaoyu Wang, Mitch Cherniack
November 2006 **CIKM '06:** Proceedings of the 15th ACM international
conference on Information and knowledge management
Publisher: ACM

Full text available: <u>pdf(324.03 KB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>,
<u>references</u>, <u>index terms</u>

The I/O performance of query processing can be improved using two complementary approaches: improve the buffer and the file system management policies of the DB buffer manager and the OS file system manager (e.g. page replacement), or improve the sequence ...

Keywords: I/O sequence, block request sequence

25 <u>Labels and event processes in the Asbestos operating system</u>
Steve Vandebogart, Petros Efstathopoulos, Eddie Kohler, Maxwell Krohn, Cliff Frey, David Ziegler, Frans Kaashoek, Robert Morris, David Mazières
December 2007 **ACM Transactions on Computer Systems (TOCS)**,
Volume 25 Issue 4
Publisher: ACM

Full text available: <u>pdf(1.21 MB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>,
<u>index terms</u>

Asbestos, a new operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced labels, including controls ...

Keywords: Information flow, labels, mandatory access control, process abstractions, secure Web servers

26 <u>Learning to advertise</u>
Anísio Lacerda, Marco Cristo, Marcos André Gonçalves, Weiguo Fan, Nivio Ziviani, Berthier Ribeiro-Neto
August 2006 **SIGIR '06:** Proceedings of the 29th annual international ACM SIGIR conference on Research and development in information retrieval
Publisher: ACM

Full text available: <u>pdf(377.53 KB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>,

Content-targeted advertising, the task of automatically associating ads to a Web page, constitutes a key Web monetization strategy nowadays. Further, it introduces new challenging technical problems and raises interesting questions. For instance, how ...

Keywords: genetic programming, web advertising

27 Using annotations in enterprise search

Pavel A. Dmitriev, Nadav Eiron, Marcus Fontoura, Eugene Shekita
May 2006 **WWW '06**: Proceedings of the 15th international conference on World Wide Web
Publisher: ACM

Full text available: ![pdf] pdf(289.78 KB) Additional Information: full citation, abstract, references, index terms

A major difference between corporate intranets and the Internet is that in intranets the barrier for users to create web pages is much higher. This limits the amount and quality of anchor text, one of the major factors used by Internet search engines, ...

Keywords: anchortext, community ranking, enterprise search

28 A sample-based cache mapping scheme

Rong Xu, Zhiyuan Li
June 2005 **LCTES '05**: Proceedings of the 2005 ACM SIGPLAN/SIGBED conference on Languages, compilers, and tools for embedded systems
Publisher: ACM

Full text available: ![pdf] pdf(164.54 KB) Additional Information: full citation, abstract, references, index terms

Applications running on the StrongARM SA-1110 or XScale processor cores can specify cache mapping for each virtual page to achieve better cache utilization. In this work, we describe a method to efficiently perform cache mapping. Under this scheme, we ...

Keywords: cache bypass, cache mapping, handheld devices, mini cache, profiling, trace sampling

29 Efficient search in large textual collections with redundancy

Jiangong Zhang, Torsten Suel
May 2007 **WWW '07**: Proceedings of the 16th international conference on World Wide Web
Publisher: ACM

Full text available: ![pdf] pdf(238.77 KB) Additional Information: full citation, abstract, references, index terms

Current web search engines focus on searching only themost recentsnapshot of the web. In some cases, however, it would be desirableto search over collections that include many different crawls andversions of each page. One important example of such a ...

Keywords: index compression, inverted index, query execution, redundancy elimination, search engines

30 Out-of-core and compressed level set methods

Michael B. Nielsen, Ola Nilsson, Andreas Söderström, Ken Museth
October 2007 **ACM Transactions on Graphics (TOG)**,   Volume 26 Issue 4
Publisher: ACM

Full text available: pdf(11.88 MB)   Additional Information: full citation, abstract, references, index terms

This article presents a generic framework for the representation and deformation of level set surfaces at extreme resolutions. The framework is composed ...

Keywords: Level set methods, adaptive distance fields, compression, computational fluid dynamics, deformable surfaces, geometric modeling, implicit surfaces, mesh scan conversion, morphology, out-of-core, shape, streaming

31 A comparative study of citations and links in document classification

Thierson Couto, Marco Cristo, Marcos André Gonçalves, Pável Calado, Nivio Ziviani, Edleno Moura, Berthier Ribeiro-Neto
June 2006 **JCDL '06:** Proceedings of the 6th ACM/IEEE-CS joint conference on Digital libraries
Publisher: ACM

Full text available: pdf(274.99 KB)   Additional Information: full citation, abstract, references, index terms

It is well known that links are an important source of information when dealing with Web collections. However, the question remains on whether the same techniques that are used on the Web can be applied to collections of documents containing citations ...

Keywords: digital libraries, links, text classification, web directories

32 Tradeoffs in transactional memory virtualization

JaeWoong Chung, Chi Cao Minh, Austen McDonald, Travis Skare, Hassan Chafi, Brian D. Carlstrom, Christos Kozyrakis, Kunle Olukotun
November 2006 **ASPLOS-XII: ACM SIGPLAN Notices**,   Volume 41 Issue 11
Publisher: ACM

Full text available: pdf(325.77 KB)   Additional Information: full citation, abstract, references, cited by, index terms

For transactional memory (TM) to achieve widespread acceptance, transactions should not be limited to the physical resources of any specific hardware implementation. TM systems should guarantee correct execution even when transactions exceed scheduling ...

Keywords: OS support, chip multi-processor, transactional memory, virtualization

33 Dynamic data scratchpad memory management for a memory

subsystem with an MMU
Hyungmin Cho, Bernhard Egger, Jaejin Lee, Heonshik Shin
July 2007 **LCTES '07: ACM SIGPLAN Notices**,   Volume 42 Issue 7
Publisher: ACM

Full text available: pdf(405.94 KB)   Additional Information: full citation, abstract,
references, index terms

In this paper, we propose a dynamic scratchpad memory (SPM)
management technique for a horizontally-partitioned memory subsystem
with an MMU. The memory subsystem consists of a relatively cheap
direct-mapped data cache and SPM. Our technique loads required ...

Keywords: compilers, demand paging, horizontally-partitioned memory,
post-pass optimization, scratchpad memory

34 Geiger: monitoring the buffer cache in a virtual machine environment
Stephen T. Jones, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
November 2006 **ASPLOS-XII: ACM SIGPLAN Notices**,   Volume 41 Issue 11
Publisher: ACM

Full text available: pdf(326.97 KB)   Additional Information: full citation, abstract,
references, index terms

Virtualization is increasingly being used to address server management
and administration issues like flexible resource allocation, service
isolation and workload migration. In a virtualized environment, the
virtual machine monitor (VMM) is the primary ...

Keywords: inference, virtual machine

35 Making the fast case common and the uncommon case simple in
unbounded transactional memory
Colin Blundell, Joe Devietti, E. Christopher Lewis, Milo M. K. Martin
June 2007 **ISCA '07: ACM SIGARCH Computer Architecture News**,
Volume 35 Issue 2
Publisher: ACM

Full text available: pdf(356.52 KB)   Additional Information: full citation, abstract,
references, index terms

Hardware transactional memory has great potential to simplify the
creation ofcorrect and efficient multithreaded programs, allowing
programmers to exploitmore effectively the soon-to-be-ubiquitous multi-
core designs. Several recentproposals have extended ...

Keywords: concurrency, parallel programming, transactional memory,
transactions

36 Evaluating DANTE: Semantic transcoding for visually disabled users
Yeliz Yesilada, Robert Stevens, Simon Harper, Carole Goble
September 2007 **ACM Transactions on Computer-Human Interaction
(TOCHI)**, Volume 14 Issue 3
Publisher: ACM

Full text available: pdf(1.22 MB)   Additional Information: full citation, abstract, references,
index terms

The importance of the World Wide Web for information dissemination is indisputable. However, the dominance of visual design on the Web leaves visually disabled people at a disadvantage. Although assistive technologies, such as screen readers, usually ...

Keywords: Semantic Web, Travel, evaluation, transcoding, visual impairment

37 Evaluating implicit measures to improve web search

Steve Fox, Kuldeep Karnawat, Mark Mydland, Susan Dumais, Thomas White
April 2005 **ACM Transactions on Information Systems (TOIS)**, Volume 23 Issue 2
Publisher: ACM

Full text available: pdf(2.52 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Of growing interest in the area of improving the search experience is the collection of implicit user behavior measures (implicit measures) as indications of user interest and user satisfaction. Rather than having to submit explicit user feedback, which ...

Keywords: Implicit measures, explicit feedback, explicit ratings, prediction model, search sessions, user interest, user satisfaction

38 Beyond PageRank: machine learning for static ranking

Matthew Richardson, Amit Prakash, Eric Brill
May 2006 **WWW '06:** Proceedings of the 15th international conference on World Wide Web
Publisher: ACM

Full text available: pdf(133.74 KB)   Additional Information: full citation, abstract, references, index terms

Since the publication of Brin and Page's paper on PageRank, many in the Web community have depended on PageRank for the static (query-independent) ordering of Web pages. We show that we can significantly outperform PageRank using features that are independent ...

Keywords: PageRank, RankNet, relevance, search engines, static ranking

39 Making the fast case common and the uncommon case simple in unbounded transactional memory

Colin Blundell, Joe Devietti, E. Christopher Lewis, Milo M. K. Martin
June 2007 **ISCA '07:** Proceedings of the 34th annual international symposium on Computer architecture
Publisher: ACM

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Hardware transactional memory has great potential to simplify the creation ofcorrect and efficient multithreaded programs, allowing programmers to exploitmore effectively the soon-to-be-ubiquitous multi-core designs. Several recentproposals have extended ...

Keywords: concurrency, parallel programming, transactional memory, transactions

40 A sample-based cache mapping scheme
Rong Xu, Zhiyuan Li
July 2005 **LCTES '05: ACM SIGPLAN Notices**,   Volume 40 Issue 7
Publisher: ACM

Full text available: pdf(164.54 KB)   Additional Information: full citation, abstract, references, index terms

Applications running on the StrongARM SA-1110 or XScale processor cores can specify cache mapping for each virtual page to achieve better cache utilization. In this work, we describe a method to efficiently perform cache mapping. Under this scheme, we ...

Keywords: cache bypass, cache mapping, handheld devices, mini cache, profiling, trace sampling

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41 Are virtual-machine monitors microkernels done right?
♦ Gernot Heiser, Volkmar Uhlig, Joshua LeVasseur
January 2006 **ACM SIGOPS Operating Systems Review**,   Volume 40 Issue 1
Publisher: ACM

Full text available: 🔲 pdf(124.78 KB) Additional Information: full citation, abstract, references, index terms

A paper by Hand *et al.* at the recent HotOS workshop re-examined microkernels and contrasted them to virtual-machine monitors (VMMs). It found that the two kinds of systems share architectural commonalities but also have a number of technical differences ...

42 Geiger: monitoring the buffer cache in a virtual machine environment
♦ Stephen T. Jones, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau
October 2006 **ASPLOS-XII: ACM SIGOPS Operating Systems Review**,   Volume 40 Issue 5
Publisher: ACM

Full text available: 🔲 pdf(326.97 KB) Additional Information: full citation, abstract, references, index terms

Virtualization is increasingly being used to address server management and administration issues like flexible resource allocation, service isolation and workload migration. In a virtualized environment, the virtual machine monitor (VMM) is the primary ...

Keywords: inference, virtual machine

43 Display space usage and window management operation comparisons between single monitor and multiple monitor users
♦ Dugald Ralph Hutchings, Greg Smith, Brian Meyers, Mary Czerwinski, George Robertson
May 2004 **AVI '04:** Proceedings of the working conference on Advanced visual interfaces
Publisher: ACM

Full text available: 🔲 pdf(91.48 KB) Additional Information: full citation, abstract, references, cited by, index terms

The continuing trend toward greater processing power, larger storage, and in particular increased display surface by using multiple monitor supports increased multi-tasking by the computer user. The concomitant increase in desktop complexity has the ...

Keywords: UI logs, automation, multiple monitors, space management, user interaction, window management

44 Join algorithm costs revisited

Evan P. Harris, Kotagiri Ramamohanarao

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: ⬛ pdf(329.00 KB) Additional Information: full citation, abstract, cited by, index terms

A method of analysing join algorithms based upon the time required to access, transfer and perform the relevant CPU-based operations on a disk page is proposed. The costs of variations of several of the standard join algorithms, including nested block, ...

Keywords: Join algorithms, Minimisation, Optimal buffer allocation

45 Geiger: monitoring the buffer cache in a virtual machine environment

Stephen T. Jones, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

October 2006 **ASPLOS-XII:** Proceedings of the 12th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: ⬛ pdf(326.97 KB) Additional Information: full citation, abstract, references, index terms

Virtualization is increasingly being used to address server management and administration issues like flexible resource allocation, service isolation and workload migration. In a virtualized environment, the virtual machine monitor (VMM) is the primary ...

Keywords: inference, virtual machine

46 Characterizing a national community web

Daniel Gomes, Mário J. Silva

August 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 3

Publisher: ACM

Full text available: ⬛ pdf(364.77 KB) Additional Information: full citation, abstract, references, cited by, index terms

This article presents a characterization of the community Web of the people of Portugal. We defined criteria for delimiting this Web based on our past experience of crawling pages related to Portugal and collected over 3.2 million documents from 46,000 ...

Keywords: Portuguese Web, Web characterization, Web communities, Web measurements

47 <u>Labels and event processes in the asbestos operating system</u>

Petros Efstathopoulos, Maxwell Krohn, Steve VanDeBogart, Cliff Frey, David Ziegler, Eddie Kohler, David Mazières, Frans Kaashoek, Robert Morris

October 2005 **SOSP '05: ACM SIGOPS Operating Systems Review**, Volume 39 Issue 5

Publisher: ACM

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Asbestos, a new prototype operating system, provides novel labeling and isolation mechanisms that help contain the effects of exploitable software flaws. Applications can express a wide range of policies with Asbestos's kernel-enforced label mechanism, ...

Keywords: event processes, information flow, labels, mandatory access control, secure web servers

48 <u>Labels and event processes in the asbestos operating system</u>

Petros Efstathopoulos, Maxwell Krohn, Steve VanDeBogart, Cliff Frey, David Ziegler, Eddie Kohler, David Mazières, Frans Kaashoek, Robert Morris

October 2005 **SOSP '05:** Proceedings of the twentieth ACM symposium on Operating systems principles

Publisher: ACM

Full text available: <u>pdf(258.58 KB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

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Keywords: event processes, information flow, labels, mandatory access control, secure web servers

49 <u>A Robust Main-Memory Compression Scheme</u>

Magnus Ekman, Per Stenstrom

June 2005 **ISCA '05:** Proceedings of the 32nd annual international symposium on Computer Architecture

Publisher: IEEE Computer Society

Full text available: <u>pdf(460.04 KB)</u> Additional Information: <u>full citation</u>, <u>abstract</u>, <u>index terms</u>

Lossless data compression techniques can potentially free up more than 50% of the memory resources. However, previously proposed schemes suffer from high access costs. The proposed main-memory compression scheme practically eliminates performance losses ...

50 <u>Dynamic vp-tree indexing for *n*-nearest neighbor search given pair-wise distances</u>

Ada Wai-chee Fu, Polly Mei-shuen Chan, Yin-Ling Cheung, Yiu Sang Moon

July 2000 **The VLDB Journal — The International Journal on Very Large**

Data Bases, Volume 9 Issue 2
Publisher: Springer-Verlag New York, Inc.

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For some multimedia applications, it has been found that domain objects cannot be represented as feature vectors in a multidimensional space. Instead, pair-wise distances between data objects are the only input. To support content-based retrieval, one ...

Keywords: Content-based retrieval, Indexing, Nearest neighbor search, Pair-wise distances, Updating

51 A Robust Main-Memory Compression Scheme

Magnus Ekman, Per Stenstrom
May 2005 **ISCA '05: ACM SIGARCH Computer Architecture News,** Volume 33
Issue 2
Publisher: ACM

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Lossless data compression techniques can potentially free up more than 50% of the memory resources. However, previously proposed schemes suffer from high access costs. The proposed main-memory compression scheme practically eliminates performance losses ...

52 Garbage collection for embedded systems

David F. Bacon, Perry Cheng, David Grove
September 2004 **EMSOFT '04:** Proceedings of the 4th ACM international
conference on Embedded software
Publisher: ACM

Full text available: 🗎 pdf(199.59 KB) Additional Information: full citation, abstract, references, cited by, index terms

Security concerns on embedded devices like cellular phones make Java an extremely attractive technology for providing third-party and user-downloadable functionality. However, garbage collectors have typically required several times the maximum live ...

Keywords: compaction, fragmentation, mark-and-sweep, tracing

53 Compiler-based I/O prefetching for out-of-core applications

Angela Demke Brown, Todd C. Mowry, Orran Krieger
May 2001 **ACM Transactions on Computer Systems (TOCS),** Volume 19 Issue 2
Publisher: ACM

Full text available: 🗎 pdf(499.03 KB) Additional Information: full citation, abstract, references, cited by, index terms, review

Current operating systems offer poor performance when a numeric application's working set does not fit in main memory. As a result, programmers who wish to solve "out-of-core" problems efficiently are typically faced with the onerous task ...

Keywords: compiler optimization, prefetching, virtual memory

54 <u>Automated compile-time and run-time techniques to increase usable</u>
<u>memory in MMU-less embedded systems</u>
Lan S. Bai, Lei Yang, Robert P. Dick
October 2006 **CASES '06:** Proceedings of the 2006 international conference on
             Compilers, architecture and synthesis for embedded systems
Publisher: ACM

Full text available: 📄 pdf(1.94 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index</u>
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Random access memory (RAM) is tightly-constrained in many embedded
systems. This is especially true for the least expensive, lowest-power
embedded systems, such as sensor network nodes and portable consumer
electronics. The most widely-used sensor network ...

Keywords: data compression, embedded system, wireless sensor network

55 <u>A buffer cache management scheme exploiting both temporal and spatial</u>
<u>localities</u>
Xiaoning Ding, Song Jiang, Feng Chen
June 2007 **ACM Transactions on Storage (TOS)**,   Volume 3 Issue 2
Publisher: ACM

Full text available: 📄 pdf(410.38 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>,
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On-disk sequentiality of requested blocks, or their spatial locality, is critical to
real disk performance where the throughput of access to sequentially-placed
disk blocks can be an order of magnitude higher than that of access to
randomly-placed blocks. ...

Keywords: Caching, file systems, hard disk, spatial locality, temporal locality

56 <u>Improving Web Site Content Using a Concept-Based Knowledge</u>
<u>Discovery Process</u>
Sebastian A. Rios, Juan D. Velasquez, Eduardo S. Vera, Hiroshi Yasuda,
Terumasa Aoki
December 2006 **WI '06:** Proceedings of the 2006 IEEE/WIC/ACM International
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Publisher: IEEE Computer Society

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Nowadays many organizations and enterprises have a web site to help
accomplish several business goals from sales to customer support. A very
important activity for today's managers is how to improve the experience of
visitors in their web site and make ...

57 <u>Kernel Korner: kHTTPd, a Kernel-Based Web Server</u>
Moshe Bar
August 2000 **Linux Journal**,   Volume 2000 Issue 76es
Publisher: Specialized Systems Consultants, Inc.

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58 <u>Scalable fault-tolerant distributed shared memory</u>
Florin Sultan, Liviu Iftode, Thu Nguyen
November 2000 **Supercomputing '00:** Proceedings of the 2000 ACM/IEEE
             conference on Supercomputing (CDROM)
Publisher: IEEE Computer Society

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This paper shows how a state-of-the-art software distributed shared-memory
(DSM) protocol can be efficiently extended to tolerate single-node failures. In
particular, we extend a home-based lazy release consistency (HLRC) DSM
system with independent ...

59 <u>A dynamic code placement technique for scratchpad memory using</u>
<u>postpass optimization</u>
Bernhard Egger, Chihun Kim, Choonki Jang, Yoonsung Nam, Jaejin Lee, Sang
Lyul Min
October 2006 **CASES '06:** Proceedings of the 2006 international conference on
             Compilers, architecture and synthesis for embedded systems
Publisher: ACM

Full text available: <u>pdf(322.15 KB)</u> Additional Information: <u>full citation, abstract, references,</u>
<u>cited by, index terms</u>

In this paper, we propose a fully automatic dynamic scratch-pad memory
(SPM) management technique for instructions. Our technique loads required
code segments into the SPM on demand at runtime. Our approach is based on
postpass analysis and optimization ...

Keywords: code placement, compilers, demand paging, embedded systems,
heterogeneous memory, postpass optimization, scratchpad memory

60 <u>Internet scrapbook: automating Web browsing tasks by demonstration</u>
Atsushi Sugiura, Yoshiyuki Koseki
November 1998 **UIST '98:** Proceedings of the 11th annual ACM symposium on
             User interface software and technology
Publisher: ACM

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Keywords: Web browsing, World Wide Web, end-user programming,
programming by demonstration, programming by example

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☐ 2. **Selective main memory compression by identifying program phase changes**
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Potentials, IEEE
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☐ 5.
Enhancing Web access using data mining techniques
Vaisman, A.A.; Dandretta, G.; Sapia, M.;
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8. **A performance comparison of homeless and home-based lazy release consistency protocc**
Cox, A.L.; de Lara, E.; Hu, C.; Zwaenepoel, W.;
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9. **Genetic algorithms in software and in hardware-a performance analysis of workstation and implementations**
Graham, P.; Nelson, B.;
FPGAs for Custom Computing Machines, 1996. Proceedings. IEEE Symposium on
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11. **History data collection, retrieving and display in the NSLS control system**
Tang, Y.N.; Smith, J.D.;
Particle Accelerator Conference, 1995., Proceedings of the 1995
Volume 4, 1-5 May 1995 Page(s):2253 - 2255 vol.4
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The system of claim 23, where said **difference storage** comprises a sparse file and where said **page table** further comprises: **...**
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Transaction consistent copy-on-write database - IP.com's Patent Debate
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1 Toward a threat model for storage systems
Ragib Hasan, Suvda Myagmar, Adam J. Lee, William Yurcik
November 2005 **StorageSS '05:** Proceedings of the 2005 ACM workshop on
        Storage security and survivability
Publisher: ACM

Full text available: 📄 pdf(258.24 KB) Additional Information: full citation, abstract, references, cited by, index terms

The growing number of storage security breaches as well as the need to
adhere to government regulations is driving the need for greater storage
protection. However, there is the lack of a comprehensive process to
designing storage protection solutions. ...

Keywords: security, storage system, threat model

**2 A characterization of the sensitivity of query optimization to storage
access cost parameters**
Frederick R. Reiss, Tapas Kanungo
June 2003 **SIGMOD '03:** Proceedings of the 2003 ACM SIGMOD international
        conference on Management of data
Publisher: ACM

Full text available: 📄 pdf(255.35 KB) Additional Information: full citation, abstract, references, cited by, index terms

Most relational query optimizers make use of information about the costs of
accessing tuples and data structures on various storage devices. This
information can at times be off by several orders of magnitude due to human
error in configuration setup, ...

Keywords: autonomic computing, computational geometry, databases,
parametric query optimization, storage systems

3 The automatic improvement of locality in storage systems
Windsor W. Hsu, Alan Jay Smith, Honesty C. Young
November 2005 **ACM Transactions on Computer Systems (TOCS)**, Volume 23
        Issue 4
Publisher: ACM

Full text available: pdf(2.58 MB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>, <u>review</u>

Disk I/O is increasingly the performance bottleneck in computer systems despite rapidly increasing disk data transfer rates. In this article, we propose Automatic Locality-Improving Storage (ALIS), an introspective storage system that automatically reorganizes ...

Keywords: Data layout optimization, block layout, data reorganization, data restructuring, defragmentation, disk technology trends, locality improvement, prefetching

4 An information-interconnectivity-based retrieval method for network attached storage
Iliyak Georgiev, Ivo I. Georgiev
April 2004 **CF '04:** Proceedings of the 1st conference on Computing frontiers
Publisher: ACM

Full text available: pdf(302.56 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Network attached disk storage is characterized by independent network attachment and embedded intelligence. For Internet applications, it provides the key functionality of geographical replication and intelligent retrieval of data objects.The paper describes ...

Keywords: interconnectivity-based retrieval, network attached storage, storage objects clustering

5 Applying aspect oriented programming to distributed storage metadata management
Dimple Kaul, Aniruddha Gokhale, Larry Dawson, Alan Tackett, Kelly McCauley
March 2007 **BPAOSD '07:** Proceedings of the 2nd workshop on Best practices in applying aspect-oriented software development
Publisher: ACM

Full text available: pdf(131.39 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

High performance computing applications often must handle on the order of peta bytes of data during their operation. Such large data sets inherently require distributed storage. Emerging distributed storage solutions in this realm, such as our L-Store ...

Keywords: aspects, distributed storage, extensibility, flexibility, maintainability, metadata management, real-world applications, software, tools, virtualization

6 Database storage management with object-based storage devices
Sami Iren, Steve Schlosser
June 2005 **DAMON '05:** Proceedings of the 1st international workshop on Data management on new hardware
Publisher: ACM

Full text available: pdf(119.56 KB) Additional Information: <u>full citation</u>

7 Empirical evaluation of multi-level buffer cache collaboration for storage systems

Zhifeng Chen, Yan Zhang, Yuanyuan Zhou, Heidi Scott, Berni Schiefer

June 2005 **SIGMETRICS '05:** Proceedings of the 2005 ACM SIGMETRICS international conference on Measurement and modeling of computer systems

Publisher: ACM

Full text available: pdf(379.25 KB)   Additional Information: full citation, abstract, references, cited by, index terms

To bridge the increasing processor-disk performance gap, buffer caches are used in both storage clients (e.g. database systems) and storage servers to reduce the number of slow disk accesses. These buffer caches need to be managed effectively to deliver ...

Keywords: collaborative caching, database, file system, storage system

8 Reservation storage policy for AS/RS at air cargo terminals

Chulung Lee, Huei Chuen Huang, Paul Goldsman, Bin Liu, Zhiyong Xu

December 2005 **WSC '05:** Proceedings of the 37th conference on Winter simulation

Publisher: Winter Simulation Conference

Full text available: pdf(196.47 KB)   Additional Information: full citation, abstract, references, cited by

At air cargo terminals, the operations of an automatic storage and retrieval system (AS/RS) have certain special characteristics that both cargo arrival rates and storage duration are stochastic, and the probability distributions can only come from the ...

9 Storage technologies: an education opportunity

Ed Van Sickle, Efrem Mallach, Brian Cameron, Derrek B. Dunn, Denetra Rook, Frank Groom, Ronnie Rollins

October 2007 **SIGITE '07:** Procedding of the 8th ACM SIG-information conference on Information technology education

Publisher: ACM

Full text available: pdf(309.42 KB)   Additional Information: full citation, abstract, references, index terms

Are current IT students ready for the explosive growth in information? IDC reports that 988 billion gigabytes of new digital information will be created by 2010 [1]. IT managers face the task of creating an infrastructure which can Store, Protect, Manage, ...

Keywords: EMC academic alliance program, EMC proven professional program, certification, computer science education, industry-education relationships, information infrastructure technologies, information science education, information storage, storage courses and curriculum, storage education, storage technologies

10

Building MEMS-based storage systems for streaming media
Raju Rangaswami, Zoran Dimitrijević, Edward Chang, Klaus Schauser
June 2007 **ACM Transactions on Storage (TOS)**, Volume 3 Issue 2
Publisher: ACM

Full text available: pdf(615.22 KB)   Additional Information: full citation, abstract, references, index terms

The performance of streaming media servers has been limited by the dual requirements of high disk throughput (to service more clients simultaneously) and low memory use (to decrease system cost). To achieve high disk throughput, disk drives must be accessed ...

Keywords: I/O scheduling, MEMS-based storage, Storage architecture, multidisk storage, streaming media

11 Standardizing storage clusters
Garth Goodson, Sai Susharla, Rahul Iyer
September 2007 **Queue**, Volume 5 Issue 6
Publisher: ACM

Additional Information: full citation,

Full text available: pdf(31.32 KB) htm(31.32 KB)   abstract, index terms

Will pNFS become the new standard for parallel data access?

12 The evolution of storage service providers: techniques and challenges to outsourcing storage
Ragib Hasan, William Yurcik, Suvda Myagmar
November 2005 **StorageSS '05:** Proceedings of the 2005 ACM workshop on Storage security and survivability
Publisher: ACM

Full text available: pdf(171.61 KB)   Additional Information: full citation, abstract, references, cited by, index terms

As enterprise storage needs grow, it is challenging to manage storage systems. The costs of locally managing, supporting, and maintaining resilience in storage systems has skyrocketed. Also, companies must comply with a growing number of federal and ...

Keywords: data protection, outsourcing, storage service provider

13 Propeties of storage hierarchy systems with multiple page sizes and redundant data
Chat-Yu Lam, Stuart E. Madnick
September 1979 **ACM Transactions on Database Systems (TODS)**, Volume 4 Issue 3
Publisher: ACM

Full text available: pdf(896.87 KB)   Additional Information: full citation, abstract, references, cited by, index terms

The need for high performance, highly reliable storage for very large on-line databases, coupled with rapid advances in storage device technology, has made the study of generalized storage hierarchies an important area of

research. This paper analyzes ...

Keywords: data storage hierarchy, database computer, inclusion properties, modeling, perform and reliability analysis, storage management algorithms, very large databases

14 Using simulation to optimize a horizontal carousel storage system
Todd LeBaron, Michael L. Hoffman
December 1998 **WSC '98:** Proceedings of the 30th conference on Winter simulation
Publisher: IEEE Computer Society Press
Full text available: pdf(95.53 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

15 StorHouse metanoia - new applications for database, storage & data warehousing
Felipe Cariño, Jr., Pekka Kostamaa, Art Kaufmann, John Burgess
June 2001 **SIGMOD '01: ACM SIGMOD Record**, Volume 30 Issue 2
Publisher: ACM
Full text available: pdf(597.88 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

This paper describes the StorHouse/Relational Manager (RM) database system that uses and exploits an *active storage hierarchy*. By active storage hierarchy, we mean that StorHouse/RM executes SQL queries *directly* against data stored on all ...

16 StorHouse metanoia - new applications for database, storage & data warehousing
Felipe Cariño, Jr., Pekka Kostamaa, Art Kaufmann, John Burgess
May 2001 **SIGMOD '01:** Proceedings of the 2001 ACM SIGMOD international conference on Management of data
Publisher: ACM
Full text available: pdf(597.88 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

This paper describes the StorHouse/Relational Manager (RM) database system that uses and exploits an *active storage hierarchy*. By active storage hierarchy, we mean that StorHouse/RM executes SQL queries *directly* against data stored on all ...

17 A ubiquitous stable storage for mobile computing devices
Legand L. Burge, III, Suleiman Baajun, Moses Garuba
March 2001 **SAC '01:** Proceedings of the 2001 ACM symposium on Applied computing
Publisher: ACM
Full text available: pdf(80.15 KB) Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

Keywords: Jini, mobile computing, post-pc, security, wireless

18 A heterogeneous storage grid enabled by grid service
Yuhui Deng, Frank Wang
January 2007 **ACM SIGOPS Operating Systems Review**,   Volume 41 Issue 1
Publisher: ACM

Full text available: pdf(202.18 KB)   Additional Information: full citation, abstract, references, index terms

Due to the explosive increase of data, storage Grid is a new model for
deploying and managing storage resources distributed across multiple
systems and networks, making efficient use of available storage capacity.
Building a storage Grid demands corresponding ...

Keywords: architecture, grid service, heterogeneous storage system,
interoperability, storage grid, web service

19 Resource-aware multi-format network security data storage
Evan Cooke, Andrew Myrick, David Rusek, Farnam Jahanian
September 2006 **LSAD '06:** Proceedings of the 2006 SIGCOMM workshop on
Large-scale attack defense
Publisher: ACM

Full text available: pdf(385.48 KB)   Additional Information: full citation, abstract, references, index terms

Internet security systems like intrusion detection and intrusion prevention
systems are based on a simple input-output principle: they receive a high-
bandwidth stream of input data and produce summaries of suspicious events.
This simple model has serious ...

Keywords: anomaly classification, anomaly detection, darknet, network-
wide traffic analysis

20 Empirical evaluation of multi-level buffer cache collaboration for storage
systems
Zhifeng Chen, Yan Zhang, Yuanyuan Zhou, Heidi Scott, Berni Schiefer
June 2005 **SIGMETRICS '05: ACM SIGMETRICS Performance Evaluation
Review**,   Volume 33 Issue 1
Publisher: ACM

Full text available: pdf(379.25 KB)   Additional Information: full citation, abstract, references,
cited by, index terms

To bridge the increasing processor-disk performance gap, buffer caches are
used in both storage clients (e.g. database systems) and storage servers to
reduce the number of slow disk accesses. These buffer caches need to be
managed effectively to deliver ...

Keywords: collaborative caching, database, file system, storage system

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21 Strategies for storage of checkpointing data using non-dedicated repositories on Grid systems
Raphael Y. de Camargo, Renato Cerqueira, Fabio Kon
November 2005 **MGC '05:** Proceedings of the 3rd international workshop on
          Middleware for grid computing
Publisher: ACM

Full text available: 📄 pdf(321.12 KB)   Additional Information: full citation, abstract, references, cited by, index terms

  Dealing with the large amounts of data generated by long-running parallel
  applications is one of the most challenging aspects of Grid Computing. Periodic
  checkpoints might be taken to guarantee application progression, producing
  even more data. The classical ...

  Keywords: checkpointing, data coding, distributed storage, fault-tolerance,
  grid computing

22 Multiresolution storage and search in sensor networks
Deepak Ganesan, Ben Greenstein, Deborah Estrin, John Heidemann, Ramesh
Govindan
August 2005 **ACM Transactions on Storage (TOS)**,   Volume 1 Issue 3
Publisher: ACM

Full text available: 📄 pdf(1.55 MB)   Additional Information: full citation, abstract, references, cited by, index terms

  Wireless sensor networks enable dense sensing of the environment, offering
  unprecedented opportunities for observing the physical world. This article
  addresses two key challenges in wireless sensor networks: in-network storage
  and distributed search. ...

  Keywords: Wireless sensor networks, data aging, data storage, drill-down
  query, multiresolution storage, wavelet processing

23 Dynamic multi-resolution data dissemination in storage-centric wireless
sensor networks
Hongbo Luo, Guoliang Xing, Minming Li, Xiaohua Jia
October 2007 **MSWiM '07:** Proceedings of the 10th ACM Symposium on Modeling,

analysis, and simulation of wireless and mobile systems
Publisher: ACM

Full text available: ⬚ pdf(335.93 KB) Additional Information: full citation, abstract, references, index terms

Recently, several storage-centric wireless sensor networks (WSNs) have been developed to store massive sensor data in the network. A crucial task of these networks is to disseminate useful information to the users at *dynamic* temporal resolutions. ...

Keywords: data dissemination, storage-centric sensor networks, temporal resolution

24 Scheduling independent processors with different storage capacities
D. G. Kafura, V. Y. Shen
January 1974 **ACM 74:** Proceedings of the 1974 annual conference
Publisher: ACM

Full text available: ⬚ pdf(451.17 KB) Additional Information: full citation, abstract, references, cited by, index terms

The analysis of multiprocessor scheduling strategies has been the focus of substantial research in recent years. Because of the inherent complexity of the general scheduling problem, many researchers have proposed simple mathematical models of computing ...

Keywords: Deterministic scheduling models, Minimizing completion time, Scheduling algorithms

25 Gossiping over storage systems is practical
Hakim Weatherspoon, Hugo Miranda, Konrad Iwanicki, Ali Ghodsi, Yann Busnel
October 2007 **ACM SIGOPS Operating Systems Review,** Volume 41 Issue 5
Publisher: ACM

Full text available: ⬚ pdf(322.70 KB) Additional Information: full citation, abstract, references, index terms

Gossip-based mechanisms are touted for their simplicity, limited resource usage, robustness to failures, and tunable system behavior. These qualities make gossiping an ideal mechanism for storage systems that are responsible for maintaining and updating ...

Keywords: distributed storage, durability, gossip-based storage, gossiping, mobile ad hoc networks, persistent storage, update propagation, wide-area networks, wireless sensor networks

26 Storage virtualization gets smart
Kostadis Roussos
September 2007 **Queue,** Volume 5 Issue 6
Publisher: ACM

Additional Information: full citation, abstract, references, index terms

Full text available: ⬚ pdf(173.54 KB) ⬚ htm(22.21 KB)

The days of overprovisioned, underutilized storage resources might soon become a thing of the past.

27 FAB: building distributed enterprise disk arrays from commodity
components
Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence
October 2004 **ASPLOS-XI:** Proceedings of the 11th international conference on
Architectural support for programming languages and operating
systems
Publisher: ACM

Full text available: pdf(671.67 KB)   Additional Information: full citation, abstract, references, cited
by, index terms, review

This paper describes the design, implementation, and evaluation of a Federated
Array of Bricks (FAB), a distributed disk array that provides the reliability of
traditional enterprise arrays with lower cost and better scalability. FAB is built
from a ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

28 FAB: building distributed enterprise disk arrays from commodity
components
Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence
November 2004 **ASPLOS-XI: ACM SIGPLAN Notices**,   Volume 39 Issue 11
Publisher: ACM

Full text available: pdf(671.67 KB)   Additional Information: full citation, abstract, references, cited
by, index terms, review

This paper describes the design, implementation, and evaluation of a Federated
Array of Bricks (FAB), a distributed disk array that provides the reliability of
traditional enterprise arrays with lower cost and better scalability. FAB is built
from a ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

29 A new thought paradigm: delivering cost effective and ubiquitously
accessible storage with enterprise backup system via a multi-tiered storage
framework
Prasun Gupta, Mahmoud Pegah
October 2007 **SIGUCCS '07:** Proceedings of the 35th annual ACM SIGUCCS
conference on User services
Publisher: ACM

Full text available: pdf(494.95 KB)   Additional Information: full citation, abstract, references, index
terms

Multimedia applications are characterized by their demand for high performance
storage and computationally intensive functions. Ringling College of Art and
Design is at the forefront of addressing challenges inherent to multimedia
applications. In spite ...

Keywords: hierarchical storage management, multi-tiered storage
management, sam-fs

30
Building and supporting a massive data infrastructure for the masses

Anurag Shankar, Gustav Meglicki, Jeff Russ, Haichuan Yang, E. Chris Garrison
November 2002 **SIGUCCS '02:** Proceedings of the 30th annual ACM SIGUCCS
conference on User services
Publisher: ACM

Full text available: pdf(526.33 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

On a typical university campus, the words "massive data storage" (MDS) usually bring to mind technology high-end, high performance computing (HPC) users might use. This is because academic supercomputer sites have traditionally provided a tightly interwoven ...

Keywords: DCE, DFS, HPSS, HSM, distributed storage, hierarchical storage management, massive data storage, support

31 <u>Data pipelines: enabling large scale multi-protocol data transfers</u>
Tevfik Kosar, George Kola, Miron Livny
October 2004 **MGC '04:** Proceedings of the 2nd workshop on Middleware for grid computing
Publisher: ACM

Full text available: pdf(345.06 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Collaborating users need to move terabytes of data among their sites, often involving multiple protocols. This process is very fragile and involves considerable human involvement to deal with failures. In this work, we propose data pipelines, an automated ...

Keywords: bulk data transfers, data pipelines, distributed systems, fault-tolerance, grid, mass storage systems, replication

32 <u>FAB: building distributed enterprise disk arrays from commodity components</u>
Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence
December 2004 **ASPLOS-XI: ACM SIGOPS Operating Systems Review**, Volume 38 Issue 5
Publisher: ACM

Full text available: pdf(671.67 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

This paper describes the design, implementation, and evaluation of a Federated Array of Bricks (FAB), a distributed disk array that provides the reliability of traditional enterprise arrays with lower cost and better scalability. FAB is built from a ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

33 <u>What makes the differences: benchmarking XML database implementations</u>
Hongjun Lu, Jeffrey Xu Yu, Guoren Wang, Shihui Zheng, Haifeng Jiang, Ge Yu, Aoying Zhou
February 2005 **ACM Transactions on Internet Technology (TOIT)**, Volume 5 Issue 1
Publisher: ACM

Full text available: pdf(589.14 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index</u>

XML is emerging as a major standard for representing data on the World Wide
Web. Recently, many XML storage models have been proposed to manage XML
data. In order to assess an XML database's abilities to deal with XML queries,
several benchmarks have ...

Keywords: XML query processing, XML storage model, benchmark

34 A relational data base management system
Giampio Bracchi, A. Fedeli, P. Paolini
August 1972 **ACM '72: Proceedings of the ACM annual conference - Volume
2,** Volume 2
Publisher: ACM

Full text available: pdf(930.34 KB) Additional Information: full citation, abstract, references, cited
by, index terms

In this paper the design criteria and the overall organization of MORIS, a new
general purpose data management system, are illustrated. The system is based
on a relational model of data, in which the data base is viewed as a collection of
time varying ...

Keywords: Data base management, Data independence, Data structures,
Information retrieval, Predicate calculus, Relational model, Security, Storage
structures, Transaction processing

35 Capsule: an energy-optimized object storage system for memory-
constrained sensor devices
Gaurav Mathur, Peter Desnoyers, Deepak Ganesan, Prashant Shenoy
October 2006 **SenSys '06:** Proceedings of the 4th international conference on
Embedded networked sensor systems
Publisher: ACM

Full text available: pdf(470.09 KB) Additional Information: full citation, abstract, references, cited
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Recent gains in energy-efficiency of new-generation NAND flash storage have
strengthened the case for in-network storage by data-centric sensor network
applications. This paper argues that a simple file system abstraction is
inadequate for realizing ...

Keywords: embedded systems, energy efficiency, file system, flash memory,
objects, sensor network, storage system

36 FAB: building distributed enterprise disk arrays from commodity
components
Yasushi Saito, Svend Frølund, Alistair Veitch, Arif Merchant, Susan Spence
December 2004 **ASPLOS-XI: ACM SIGARCH Computer Architecture News,**
Volume 32 Issue 5
Publisher: ACM

Full text available: pdf(671.67 KB) Additional Information: full citation, abstract, references, cited
by, index terms, review

This paper describes the design, implementation, and evaluation of a Federated
Array of Bricks (FAB), a distributed disk array that provides the reliability of
traditional enterprise arrays with lower cost and better scalability. FAB is built

from a ...

Keywords: consensus, disk array, erasure coding, replication, storage, voting

37 Cheap recovery: a key to self-managing state

Andrew C. Huang, Armando Fox

February 2005 **ACM Transactions on Storage (TOS)**,   Volume 1 Issue 1

Publisher: ACM

Full text available: 📄 pdf(1.24 MB)   Additional Information: full citation, abstract, references, index terms

Cluster hash tables (CHTs) are key components of many large-scale Internet services due to their highly-scalable performance and the prevalence of the type of data they store. Another advantage of CHTs is that they can be designed to be as self-managing ...

Keywords: Cluster hash table, manageability, quourum replication, storage systems design

38 A clustering algorithm for hierarchical structures

March 1977 **ACM Transactions on Database Systems (TODS)**,   Volume 2 Issue 1

Publisher: ACM

Full text available: 📄 pdf(531.20 KB)   Additional Information: full citation, references, cited by, index terms

Keywords: access models, clustering techniques, database design, hierarchical model, hierarchical structures, page faults, storage allocation

39 TSAR: a two tier sensor storage architecture using interval skip graphs

Peter Desnoyers, Deepak Ganesan, Prashant Shenoy

November 2005 **SenSys '05:** Proceedings of the 3rd international conference on Embedded networked sensor systems

Publisher: ACM

Full text available: 📄 pdf(444.47 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Archival storage of sensor data is necessary for applications that query, mine, and analyze such data for interesting features and trends. We argue that existing storage systems are designed primarily for flat hierarchies of homogeneous sensor nodes ...

Keywords: archival storage, indexing methods, wireless sensor networks

40 Implementing software on resource-constrained mobile sensors: experiences with Impala and ZebraNet

Ting Liu, Christopher M. Sadler, Pei Zhang, Margaret Martonosi

June 2004 **MobiSys '04:** Proceedings of the 2nd international conference on Mobile systems, applications, and services

Publisher: ACM

Full text available: 📄 pdf(3.14 MB)   Additional Information: full citation, abstract, references, cited by, index terms

ZebraNet is a mobile, wireless sensor network in which nodes move throughout an environment working to gather and process information about their surroundings[10]. As in many sensor or wireless systems, nodes have critical resource constraints such as ...

Keywords: event handling, middleware system, network communications, operation scheduling, sensor networks

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41 An online video placement policy based on bandwidth to space ratio (BSR)
Asit Dan, Dinkar Sitaram
May 1995 **SIGMOD '95: ACM SIGMOD Record**,   Volume 24 Issue 2
Publisher: ACM

Full text available: ⬛ pdf(1.23 MB)   Additional Information: full citation, abstract, references, cited by, index terms

> In a video-on-demand server, resource reservation is required to guarantee continuous delivery. Hence any given storage device (or a striping group treated as a single logical device) can serve only up to a fixed number of client access streams. Each ...

42 Competitive prefetching for concurrent sequential I/O
Chuanpeng Li, Kai Shen, Athanasios E. Papathanasiou
March 2007 **EuroSys '07:** Proceedings of the ACM SIGOPS/EuroSys European Conference on Computer Systems 2007
Publisher: ACM

Full text available: ⬛ pdf(2.79 MB)   Additional Information: full citation, abstract, references, index terms

> During concurrent I/O workloads, sequential access to one I/O stream can be interrupted by accesses to other streams in the system. Frequent switching between multiple sequential I/O streams may severely affect I/O efficiency due to long disk seek and ...

Keywords: I/O, competitive prefetching, performance evaluation

43 KDDCS: a load-balanced in-network data-centric storage scheme for sensor networks
Mohamed Aly, Kirk Pruhs, Panos K. Chrysanthis
November 2006 **CIKM '06:** Proceedings of the 15th ACM international conference on Information and knowledge management
Publisher: ACM

Full text available: ⬛ pdf(334.25 KB) Additional Information: full citation, abstract,

references, index terms

We propose an *In-Network Data-Centric Storage* (INDCS) scheme for answering ad-hoc queries in sensor networks. Previously proposed In-Network Storage (INS) schemes suffered from *Storage Hot-Spots* that are formed if either the sensors' locations ...

Keywords: distributed algorithms, power-aware, sensor network

44 Filtering with raster signatures

Leonardo Guerreiro Azevedo, Ralf Hartmut Güting, Rafael Brand Rodrigues, Geraldo Zimbrão, Jano Moreira de Souza
November 2006 **GIS '06:** Proceedings of the 14th annual ACM international symposium on Advances in geographic information systems
Publisher: ACM

Full text available: pdf(604.60 KB) Additional Information: full citation, abstract, references, index terms

Efficient evaluation of spatial queries is an important issue in spatial database. Among spatial operations, spatial join is very useful, intersection being the most common predicate. However, the exact intersection test of two spatial objects is the ...

Keywords: GIS, four-colors raster signature, multi-step query processor, raster approximation, spatial databases, spatial join, three-colors raster signature

45 A linear time algorithm for optimal tree sibling partitioning and approximation algorithms in Natix

Carl-Christian Kanne, Guido Moerkotte
September 2006 **VLDB '06:** Proceedings of the 32nd international conference on Very large data bases
Publisher: VLDB Endowment

Full text available: pdf(596.42 KB) Additional Information: full citation, abstract, references, index terms

Document insertion into a native XML Data Store (XDS) requires to partition the document tree into a number of storage units with limited capacity, such as records on disk pages. As intra partition navigation is much faster than navigation between partitions, ...

46 Modelling information persistence on the web

Daniel Gomes, Mário J. Silva
July 2006 **ICWE '06:** Proceedings of the 6th international conference on Web engineering
Publisher: ACM

Full text available: pdf(187.75 KB) Additional Information: full citation, abstract, references, index terms

Models of web data persistency are essential tools for the designof efficient information extraction systems that repeatedlycollect and process the data. This study models the persistence ofweb data through the measurement of URL and content persistenceacross ...

Keywords: content persistence, tomba, url persistence

47 Dynamo: amazon's highly available key-value store

Giuseppe DeCandia, Deniz Hastorun, Madan Jampani, Gunavardhan Kakulapati, Avinash Lakshman, Alex Pilchin, Swaminathan Sivasubramanian, Peter Vosshall, Werner Vogels

October 2007 **SOSP '07:** Proceedings of twenty-first ACM SIGOPS symposium on Operating systems principles

Publisher: ACM

Full text available: pdf(894.07 KB)   Additional Information: full citation, abstract, references, index terms

> Reliability at massive scale is one of the biggest challenges we face at Amazon.com, one of the largest e-commerce operations in the world; even the slightest outage has significant financial consequences and impacts customer trust. The Amazon.com platform, ...

Keywords: performance, reliability, scalability

48 A self-managing data cache for edge-of-network web applications

Khalil Amiri, Sanghyun Park, Renu Tewari

November 2002 **CIKM '02:** Proceedings of the eleventh international conference on Information and knowledge management

Publisher: ACM

Full text available: pdf(340.44 KB)   Additional Information: full citation, abstract, references, index terms

> Database caching at proxy servers enables dynamic content to be generated at the edge of the network, thereby improving the scalability and response time of web applications. The scale of deployment of edge servers coupled with the rising costs of their ...

Keywords: dynamic content, e-commerce, semantic caching

49 Towards efficient search on unstructured data: an intelligent-storage approach

Aravindan Raghuveer, Meera Jindal, Mohamed F. Mokbel, Biplob Debnath, David Du

November 2007 **CIKM '07:** Proceedings of the sixteenth ACM conference on Conference on information and knowledge management

Publisher: ACM

Full text available: pdf(319.53 KB)   Additional Information: full citation, abstract, references, index terms

> Applications that create and consume unstructured data have grown both in scale of storage requirements and complexity of search primitives. We consider two such applications: exhaustive search and integration of structured and unstructured data. Current ...

50 Data grid for large-scale medical image archive and analysis

H. K. Huang, Aifeng Zhang, Brent Liu, Zheng Zhou, Jorge Documet, Nelson

King, L. W. C. Chan
November 2005 **MULTIMEDIA '05:** Proceedings of the 13th annual ACM
          international conference on Multimedia
Publisher: ACM

Full text available: pdf(2.03 MB)   Additional Information: full citation, abstract, references,
                                                            index terms

Storage and retrieval technology for large-scale medical image systems
has matured significantly during the past ten years but many
implementations still lack cost-effective backup and recovery solutions.
As an example, a PACS (Picture Archiving and ...

Keywords: PACS, bone age assessment of children, computational
services, data grid, fault-tolerance archive, grid computing, image
analysis, image data mining

51 Failure-aware checkpointing in fine-grained cycle sharing systems
Xiaojuan Ren, Rudolf Eigenmann, Saurabh Bagchi
June 2007 **HPDC '07:** Proceedings of the 16th international symposium on
          High performance distributed computing
Publisher: ACM

Full text available: pdf(233.55 KB)   Additional Information: full citation, abstract,
                                                            references, index terms

Fine-Grained Cycle Sharing (FGCS) systems aim at utilizing the large
amountof idle computational resources available on the Internet. Such
systems allow *guest jobs* to run on a host if they do not significantly
impact the local users of the host. ...

Keywords: checkpointing, cycle-sharing systems

52 Replica selection in grid environment: a data-mining approach
Rashedur M. Rahman, Ken Barker, Reda Alhajj
March 2005 **SAC '05:** Proceedings of the 2005 ACM symposium on Applied
          computing
Publisher: ACM

Full text available: pdf(238.70 KB)   Additional Information: full citation, abstract,
                                                            references

Grid technology is developed to share data across many organizations in
different geographical locations. The idea of replication is to store data
into different locations to improve data access performance. When
different sites hold replicas, there ...

Keywords: data-mining, grid, replication

53 EXPLODE: a lightweight, general system for finding serious storage
system errors
Junfeng Yang, Can Sar, Dawson Engler
November 2006 **OSDI '06:** Proceedings of the 7th symposium on Operating
          systems design and implementation
Publisher: USENIX Association

Full text available: pdf(731.30 KB)   Additional Information: full citation, abstract,
                                                            references

Storage systems such as file systems, databases, and RAID systems
have a simple, basic contract: you give them data, they do not lose or
corrupt it. Often they store the only copy, making its irrevocable loss
almost arbitrarily bad. Unfortunately, their ...

54 FlashDB: dynamic self-tuning database for NAND flash

Suman Nath, Aman Kansal

April 2007 **IPSN '07:** Proceedings of the 6th international conference on
            Information processing in sensor networks

Publisher: ACM

Full text available: 📄 pdf(286.22 KB)   Additional Information: full citation, abstract,
                                                            references, index terms

FlashDB is a self-tuning database optimized for sensor networks using
NAND flash storage. In practical systems flash is used in different
packages such as on-board flash chips, compact flash cards, secure
digital cards and related formats. Our experiments ...

Keywords: B$^+$-tree, NAND flash, indexing, log-structured index, self-
tuning index

55 Securing varieties of file systems

Philippa Fendler

October 2004 **InfoSecCD '04:** Proceedings of the 1st annual conference on
             Information security curriculum development

Publisher: ACM

Full text available: 📄 pdf(69.32 KB)   Additional Information: full citation, abstract,
                                                           references, index terms

In this paper, I describe the different ways to security different storage
media. Important is not just the security of data in frequent use, but also
data that is no longer needed. Regardless of media or system,
information security should always be ...

Keywords: NTTS, data destruction, disks, encryption, fat, memory
cards, mobile media, optical media, securing reactively and proactively,
security

56 Energy-performance trade-offs for spatial access methods on
       memory-resident data

Ning An, Sudhanva Gurumurthi, Anand Sivasubramaniam, Narayanan
Vijaykrishnan, Mahmut Kandemir, Mary Jane Irwin

November 2002 **The VLDB Journal — The International Journal on Very
              Large Data Bases**, Volume 11 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(641.55 KB)   Additional Information: full citation, abstract, cited by,
                                                             index terms

The proliferation of mobile and pervasive computing devices has brought
energy constraints into the limelight. Energy-conscious design is
important at all levels of system architecture, and the software has a key
role to play in conserving battery energy ...

Keywords: Energy optimization, Multidimensional indexing, Resource-constrained computing, Spatial data

57 Representing concerns in source code

Martin P. Robillard, Gail C. Murphy

February 2007 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,   Volume 16 Issue 1

Publisher: ACM

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, index terms

A software modification task often addresses several *concerns*. A concern is anything a stakeholder may want to consider as a conceptual unit, including features, nonfunctional requirements, and design idioms. In many cases, the source code implementing ...

Keywords: Java, Separation of concerns, aspect-oriented software development, concern modeling, software evolution

58 Answering queries using views: A survey

Alon Y. Halevy

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**,   Volume 10 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(308.74 KB)   Additional Information: full citation, abstract, cited by, index terms

The problem of answering queries using views is to find efficient methods of answering a query using a set of previously defined materialized views over the database, rather than accessing the database relations. The problem has recently received significant ...

Keywords: Data integration, Date warehousing, Materialized views, Query optimization, Survey, Web-site management

59 Reducing code size through address register assignment

G. Chen, M. Kandemir, M. J. Irwin, J. Ramanujam

February 2006 **ACM Transactions on Embedded Computing Systems (TECS)**,   Volume 5 Issue 1

Publisher: ACM

Full text available: pdf(942.62 KB)   Additional Information: full citation, abstract, references, index terms

In DSP processors, minimizing the amount of address calculations is critical for reducing code size and improving performance, since studies of programs have shown that instructions that manipulate address registers constitute a significant portion of ...

Keywords: DSP, Software compilation, address registers, register assignment

60 Repositories and object oriented databases

Philip A. Bernstein

March 1998 **ACM SIGMOD Record**,   Volume 27 Issue 1
Publisher: ACM

Full text available: 📄 pdf(87.84 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>, <u>index terms</u>

A repository is a shared database of information about engineered artifacts. An object-oriented repository has many of the same features as an object-oriented database: properties, relationships, and versioning. However, the two technologies are different ...

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61 **A note on the application of differential files to computer aided design**
M. P. Atkinson
March 1978 **ACM SIGDA Newsletter**,   Volume 8 Issue 1
Publisher: ACM

Full text available: pdf(326.86 KB)   Additional Information: full citation, abstract, references

Recently Severence and Lohman [1] have drawn attention to several attractive properties of differential files, which enable economic preservation of data integrity and allow improved utilisation of different storage devices. They observed that use of ...

62 **Performance directed energy management for main memory and disks**
Xiaodong Li, Zhenmin Li, Francis David, Pin Zhou, Yuanyuan Zhou, Sarita Adve, Sanjeev Kumar
October 2004 **ASPLOS-XI:** Proceedings of the 11th international conference on Architectural support for programming languages and operating systems
Publisher: ACM

Full text available: pdf(658.89 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Much research has been conducted on energy management for memory and disks. Most studies use control algorithms that dynamically transition devices to low power modes after they are idle for a certain threshold period of time. The control algorithms ...

Keywords: adaptation algorithms, control algorithms, low power design, memory and disk energy management, multiple power mode device

63 **Optimizing instruction TLB energy using software and hardware techniques**
I. Kadayif, A. Sivasubramaniam, M. Kandemir, G. Kandiraju, G. Chen

April 2005 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 10 Issue 2
Publisher: ACM

Additional Information: full citation, abstract, references, index terms, review

Full text available: pdf(551.77 KB)

Power consumption and power density for the Translation Look-aside Buffer (TLB) are important considerations not only in its design, but can have a consequence on cache design as well. After pointing out the importance of instruction TLB (iTLB) power ...

Keywords: Power consumption, cache design, compiler optimization, instruction locality, translation look-aside buffer

64 Spatial computation
Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein
December 2004 **ASPLOS-XI: ACM SIGARCH Computer Architecture News**, Volume 32 Issue 5
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms, review

Full text available: pdf(573.00 KB)

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs directly into hardware structures. SC program implementations are completely distributed, with no centralized ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

65 Performance directed energy management for main memory and disks
Xiaodong Li, Zhenmin Li, Francis David, Pin Zhou, Yuanyuan Zhou, Sarita Adve, Sanjeev Kumar
November 2004 **ASPLOS-XI: ACM SIGPLAN Notices**, Volume 39 Issue 11
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(658.89 KB)

Much research has been conducted on energy management for memory and disks. Most studies use control algorithms that dynamically transition devices to low power modes after they are idle for a certain threshold period of time. The control algorithms ...

Keywords: adaptation algorithms, control algorithms, low power design, memory and disk energy management, multiple power mode device

66 Spatial computation
Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein
December 2004 **ASPLOS-XI: ACM SIGOPS Operating Systems Review**, Volume 38 Issue 5
Publisher: ACM

Full text available: 🔁 pdf(573.00 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs directly into hardware structures. SC program implementations are completely distributed, with no centralized ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

67 <u>Brain Meets Brawn: Why Grid and Agents Need Each Other</u>
Ian Foster, Nicholas R. Jennings, Carl Kesselman
July 2004 **AAMAS '04: Proceedings of the Third International Joint Conference on Autonomous Agents and Multiagent Systems - Volume 1**, Volume 1
Publisher: IEEE Computer Society

Full text available: 🔁 pdf(267.67 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>, <u>index terms</u>

The Grid and agent communities both develop concepts and mechanisms for open distributed systems, albeit from different perspectives. The Grid community has historically focused on "brawn": infrastructure, tools, and applications for reliable and secure ...

68 <u>Anatomy of a native XML base management system</u>
T. Fiebig, S. Helmer, C.-C. Kanne, G. Moerkotte, J. Neumann, R. Schiele, T. Westmann
December 2002 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 11 Issue 4
Publisher: Springer-Verlag New York, Inc.

Full text available: 🔁 pdf(300.97 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>, <u>index terms</u>

Several alternatives to manage large XML document collections exist, ranging from file systems over relational or other database systems to specifically tailored XML base management systems. In this paper we give a tour of Natix, a database management ...

Keywords: Database, XML

69 <u>Spatial computation</u>
Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein
October 2004 **ASPLOS-XI: Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**
Publisher: ACM

Full text available: 🔁 pdf(573.00 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs

directly into hardware structures. SC program implementations are completely distributed, with no centralized ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

70 CEPM 1: simulation modeling and optimization of stockyard layouts for precast concrete products
Ramesh Marasini, Nashwan Dawood
December 2002 **WSC '02:** Proceedings of the 34th conference on Winter simulation: exploring new frontiers
Publisher: Winter Simulation Conference

Full text available: pdf(249.74 KB)   Additional Information: full citation, abstract, references, cited by

Stockyard is a hob of information that reflects the production, stock and sales of precast concrete products. The stockyard layout plays an important role in storage and retrieval of the products. Stockyard layout planning offers a complex task as large ...

71 WWG: a wide-area infrastructure to support groups
Joan Manuel Marquès, Leandro Navarro
September 2001 **GROUP '01:** Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: pdf(535.53 KB)

Group learning at Internet scale is becoming more frequent in university courses. This complex process requires support by distributed computing learning support infrastructures.This paper describes the design of WWG (World-Wide Groups): a distributed ...

Keywords: CSCL environment, distance cooperative learning, event distribution, virtual groups

72 Path materialization revisited: an efficient storage model for XML data
Haifeng Jiang, Hongjun Lu, Wei Wang, Jeffrey Xu Yu
January 2002 **ADC '02: Australian Computer Science Communications,** Volume 24 Issue 2
Publisher: IEEE Computer Society Press

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, cited by, index terms

XML is emerging as a new major standard for representing data on the world wide web. Several XML storage models have been proposed to store XML data in different database management systems. The unique feature of model-mapping-based approaches is that ...

Keywords: XML database, semistructured data

73 Performance directed energy management for main memory and
disks
Xiaodong Li, Zhenmin Li, Francis David, Pin Zhou, Yuanyuan Zhou, Sarita
Adve, Sanjeev Kumar
December 2004 **ASPLOS-XI: ACM SIGARCH Computer Architecture
News**, Volume 32 Issue 5
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(658.89 KB)   references, cited by, index
terms

Much research has been conducted on energy management for memory
and disks. Most studies use control algorithms that dynamically transition
devices to low power modes after they are idle for a certain threshold
period of time. The control algorithms ...

Keywords: adaptation algorithms, control algorithms, low power design,
memory and disk energy management, multiple power mode device

74 Interval query indexing for efficient stream processing
Kun-Lung Wu, Shyh-Kwei Chen, Philip S. Yu
November 2004 **CIKM '04:** Proceedings of the thirteenth ACM international
conference on Information and knowledge management
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(263.69 KB)   references, cited by, index
terms

A large number of continual range queries can be issued against a data
stream. Usually, a main memory-based query index with a small storage
cost and a fast search time is needed, especially if the stream is rapid. In
this paper, we present a CEI-based ...

Keywords: continual queries, data streams, interval indexing, query
indexing, query monitoring

75 An online video placement policy based on bandwidth to space ratio
(BSR)
Asit Dan, Dinkar Sitaram
June 1995 **SIGMOD '95:** Proceedings of the 1995 ACM SIGMOD
international conference on Management of data
Publisher: ACM

Additional Information: full citation, abstract, references,
Full text available: pdf(1.23 MB)   cited by, index terms

In a video-on-demand server, resource reservation is required to
guarantee continuous delivery. Hence any given storage device (or a
striping group treated as a single logical device) can serve only up to a
fixed number of client access streams. Each ...

76 Performance directed energy management for main memory and
disks
Xiaodong Li, Zhenmin Li, Yuanyuan Zhou, Sarita Adve

August 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 3
Publisher: ACM

Full text available: pdf(705.24 KB)   Additional Information: full citation, abstract, references, index terms, review

Much research has been conducted on energy management for memory and disks. Most studies use control algorithms that dynamically transition devices to low power modes after they are idle for a certain threshold period of time. The control algorithms ...

Keywords: Disk energy management, adaptation algorithms, control algorithms, low-power design, memory energy management, multiple-power mode device, performance guarantee

77 Why and how to benchmark XML databases

Albrecht Schmidt, Florian Waas, Martin Kersten, Daniela Florescu, Michael J. Carey, Ioana Manolescu, Ralph Busse
September 2001 **ACM SIGMOD Record**, Volume 30 Issue 3
Publisher: ACM

Full text available: pdf(612.38 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Benchmarks belong to the very standard repertory of tools deployed in database development. Assessing the capabilities of a system, analyzing actual and potential bottlenecks, and, naturally, comparing the pros and cons of different systems architectures ...

78 Global scheduler properties derived from local restrictions

Thomas Arts, Juan José Sánchez Penas
October 2002 **ERLANG '02:** Proceedings of the 2002 ACM SIGPLAN workshop on Erlang
Publisher: ACM

Full text available: pdf(211.70 KB)   Additional Information: full citation, abstract, references, cited by

The VoDka server is a video-on-demand system for a Spanish cable company. We look at the distributed scheduler of this system. This scheduler enables that whenever a user agent is asking for a certain movie, this request is transferred through the system ...

79 Path materialization revisited: an efficient storage model for XML data

Haifeng Jiang, Hongjun Lu, Wei Wang, Jeffrey Xu Yu
January 2002 **ADC '02: Proceedings of the 13th Australasian database conference - Volume 5**, Volume 5
Publisher: Australian Computer Society, Inc.

Full text available: pdf(1.05 MB)   Additional Information: full citation, abstract, references, cited by, index terms

XML is emerging as a new major standard for representing data on the world wide web. Several XML storage models have been proposed to store XML data in different database management systems. The unique

feature of model-mapping-based approaches is that ...

Keywords: XML database, semistructured data

80 A case for fractured mirrors
Ravishankar Ramamurthy, David J. DeWitt, Qi Su
August 2002 **VLDB '02:** Proceedings of the 28th international conference on
Very Large Data Bases
Publisher: VLDB Endowment

Full text available: pdf(109.97 KB)   Additional Information: full citation, abstract,
references, index terms

The Decomposition Storage Model (DSM) vertically partitions all
attributes of a given relation. DSM has excellent I/O behavior when the
number of attributes touched in the query is small. It also has a better
cache footprint than the n N-ary storage ...

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81 Tangler: a censorship-resistant publishing system based on document entanglements
Marc Waldman, David Mazières
November 2001 **CCS '01:** Proceedings of the 8th ACM conference on Computer and Communications Security
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms

Full text available: 📄 pdf(149.02 KB)

We describe the design of a censorship-resistant system that employs a unique document storage mechanism. Newly published documents are dependent on the blocks of previously published documents. We call this dependency an *entanglement*. Entanglement ...

82 Spatial computation
Mihai Budiu, Girish Venkataramani, Tiberiu Chelcea, Seth Copen Goldstein
November 2004 **ASPLOS-XI: ACM SIGPLAN Notices**, Volume 39 Issue 11
Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms, review

Full text available: 📄 pdf(573.00 KB)

This paper describes a computer architecture, *Spatial Computation* (SC), which is based on the translation of high-level language programs directly into hardware structures. SC program implementations are completely distributed, with no centralized ...

Keywords: application-specific hardware, dataflow machine, low-power, spatial computation

83 Algorithm 784: GEMM-based level 3 BLAS: portability and optimization issues
Bo Kågström, Charles van Loan
September 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 3

Publisher: ACM

Full text available: 🗎 pdf(154.52 KB)

Additional Information: <u>full citation</u>, <u>appendices and supplements</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>, <u>review</u>

This companion article discusses portability and optimization issues of the GEMM-based level 3 BLAS model implementations and the performance evaluation benchmark. All software comes in all four data types (single- and double-precision, real and complex) ...

Keywords: GEMM-based level 3 BLAS, blocked algorithms, matrix-matrix kernels, memory hierarchy, parallelization, vectorization

84 <u>Automated material handling systems: automated reticle handling: a comparison of distributed and centralized reticle storage and transport</u>
Anne M. Murray, David J. Miller
December 2003 **WSC '03:** Proceedings of the 35th conference on Winter simulation: driving innovation
Publisher: Winter Simulation Conference

Full text available: 🗎 pdf(308.46 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

The implementation of Automated Material Handling Systems (AMHS) in 300mm semiconductor facilities provides the opportunity to realize significant benefits in fabricator productivity and performance. The leverage associated with automated reticle delivery ...

85 <u>Resource and performance tradeoffs in delay-tolerant wireless networks</u>
Tara Small, Zygmunt J. Haas
August 2005 **WDTN '05:** Proceeding of the 2005 ACM SIGCOMM workshop on Delay-tolerant networking
Publisher: ACM

Full text available: 🗎 pdf(174.86 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

Wireless and mobile network technologies often impose severe limitations on the availability of resources, resulting in poor and often unsatisfactory performance of the commonly used wireless networking protocols. For instance, power and memory/storage ...

Keywords: SWIM, carry and forward, data MULEs, delay-tolerant networks, epidemic routing, message ferrying, resource tradeoffs, sensor networks, shared wireless infostation model, sparse networks, store and forward

86 <u>A tool for packaging and exchanging simulation results</u>
Dragan Savić, Matevž Pustišek, Francesco Potortì
October 2006 **valuetools '06:** Proceedings of the 1st international conference on Performance evaluation methodolgies and tools

Publisher: ACM

Full text available: pdf(326.34 KB)   Additional Information: full citation, abstract, references, index terms

Storing and exchanging simulation data is a common task among simulation practitioners, but quite often it becomes a challenge as huge quantities of data are not uncommon, and conversion between different formats can become an unwieldy task. After examining ...

Keywords: HDF, archiving, data, measurements, simulation

87 Looking at mapping, indexing & querying of MPEG-7 descriptors in RDBMS with SM3
Yang Chu, Liang-Tien Chia, Sourav S. Bhowmick
November 2004 **MMDB '04:** Proceedings of the 2nd ACM international workshop on Multimedia databases
Publisher: ACM

Full text available: pdf(279.92 KB)   Additional Information: full citation, abstract, references, index terms

MPEG-7 documents, which are primarily for multimedia information exchange, are also data-centric XML documents. Due to its advantages, the relational DBMS is the best choice for storing such XML documents. Storing XML data in relational DBMS can be classified ...

Keywords: MPEG-7, SM3, relational DBMS, storing XML documents

88 Summarizing level-two topological relations in large spatial datasets
Xuemin Lin, Qing Liu, Yidong Yuan, Xiaofang Zhou, Hongjun Lu
June 2006 **ACM Transactions on Database Systems (TODS),** Volume 31 Issue 2
Publisher: ACM

Additional Information: full citation, appendices and supplements, abstract, references, index terms

Full text available: pdf(1.33 MB)

Summarizing topological relations is fundamental to many spatial applications including spatial query optimization. In this article, we present several novel techniques to effectively construct cell density based spatial histograms for range (window) ...

Keywords: Histograms, spatial query processing and optimization

89 Real-Time Refinement and Simplification of Adaptive Triangular Meshes
Vasily Volkov, Ling Li
October 2003 **VIS '03:** Proceedings of the 14th IEEE Visualization 2003 (VIS'03)
Publisher: IEEE Computer Society
Full text available: pdf(842.85 KB) Additional Information: full citation, abstract, cited by

In this paper we present a generic method for incremental mesh adaptation based on hierarchy of semi-regular meshes. Our method supports any refinement rule mapping vertices onto vertices such as 1-to-4 split or \sqrt3-subdivision. Resulting adaptive ...

Keywords: adaptive meshes, refinement and simplification, subdivision, multiresoluton, level of detail, frame-to-frame coherence, out-of-core visualization

90 A comparison between mask- and field-programmable routing structures on industrial FPGA architectures
Luca Macchiarulo, Consolato F. Caccamo, Davide Pandini
April 2004 **GLSVLSI '04:** Proceedings of the 14th ACM Great Lakes symposium on VLSI
Publisher: ACM

Full text available: pdf(136.43 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we compare the routing architecture of island-style FPGAs based on field-programmable switch boxes with a mask-programmable routing structure, in order to assess its position in the design space of routing opportunities available to VLSI ...

Keywords: FPGA, interconnect architectures, mask-programmable, routing

91 Competitive prefetching for concurrent sequential I/O
Chuanpeng Li, Kai Shen, Athanasios E. Papathanasiou
June 2007 **EuroSys '07: ACM SIGOPS Operating Systems Review**, Volume 41 Issue 3
Publisher: ACM

Full text available: pdf(2.79 MB)   Additional Information: full citation, abstract, references, index terms

During concurrent I/O workloads, sequential access to one I/O stream can be interrupted by accesses to other streams in the system. Frequent switching between multiple sequential I/O streams may severely affect I/O efficiency due to long disk seek and ...

Keywords: I/O, competitive prefetching, performance evaluation

92 TRAP-Array: A Disk Array Architecture Providing Timely Recovery to Any Point-in-time
Qing Yang, Weijun Xiao, Jin Ren
June 2006 **ISCA '06:** Proceedings of the 33rd annual international symposium on Computer Architecture
Publisher: IEEE Computer Society

Full text available: pdf(379.07 KB)   Additional Information: full citation, abstract, index terms

RAID architectures have been used for more than two decades to recover data upon disk failures. Disk failure is just one of the many causes of damaged data. Data can be damaged by virus attacks, user errors, defective software/firmware, hardware faults, ...

93

Algorithm 807: The SBR Toolbox—software for successive band reduction

Christian H. Bischof, Bruno Lang, Xiaobai Sun

December 2000 **ACM Transactions on Mathematical Software (TOMS)**, Volume 26 Issue 4

Publisher: ACM
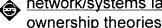
Additional Information: full citation, appendices and supplements, abstract, references, cited by, index terms, review

Full text available: pdf(119.08 KB)

We present a software toolbox for symmetric band reduction via orthogonal transformations, together with a testing and timing program. The toolbox contains drivers and computational routines for the reduction of full symmetric matrices to banded form ...

Keywords: blocked Householder transformations, symmetric matrices, tridiagonalization

94 Strategic decisions on technology selections for facilitating a network/systems laboratory using real options & total cost of ownership theories

Kimfong Lei, Phillip T. Rawles

October 2003 **CITC4 '03:** Proceedings of the 4th conference on Information technology curriculum

Publisher: ACM

Full text available: pdf(407.50 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

95 Building a distributed full-text index for the web

Sergey Melink, Sriram Raghavan, Beverly Yang, Hector Garcia-Molina

July 2001 **ACM Transactions on Information Systems (TOIS)**, Volume 19 Issue 3

Publisher: ACM

Additional Information: full citation, abstract, references, cited by, index terms, review

Full text available: pdf(651.72 KB)

We identify crucial design issues in building a distributed inverted index for a large collection of Web pages. We introduce a novel pipelining technique for structuring the core index-building system that substantially reduces the index construction ...

Keywords: Distributed indexing, Embedded databases, Inverted files, Pipelining, Text retrieval

96 Multiagent Systems for resource allocation in Peer-to-Peer systems
Sergio Camorlinga, Ken Barker, John Anderson
January 2004 **WISICT '04:** Proceedings of the winter international
                      synposium on Information and communication technologies
Publisher: Trinity College Dublin

Full text available: pdf(161.27 KB) Additional Information: full citation, abstract,
                                                           references

> This paper introduces Multiagent Systems (MAS) storage resource
> allocation algorithms and methods on a Peer-to-Peer (P2P) system of
> computer storage resources. MAS Complex Adaptive Systems (CAS)
> based on squirrels behaviors are proposed and evaluated ...

97 TRAP-Array: A Disk Array Architecture Providing Timely Recovery to
Any Point-in-time
Qing Yang, Weijun Xiao, Jin Ren
May 2006 **ISCA '06: ACM SIGARCH Computer Architecture News,**
            Volume 34 Issue 2
Publisher: ACM

Full text available: pdf(379.07 KB) Additional Information: full citation, abstract, index
                                                           terms

> RAID architectures have been used for more than two decades to recover
> data upon disk failures. Disk failure is just one of the many causes of
> damaged data. Data can be damaged by virus attacks, user errors,
> defective software/firmware, hardware faults, ...

98 Logical and physical design issues for smart card databases
Cristiana Bolchini, Fabio Salice, Fabio A. Schreiber, Letizia Tanca
July 2003 **ACM Transactions on Information Systems (TOIS),** Volume 21
            Issue 3
Publisher: ACM

Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, references,
                                                          cited by, index terms

> The design of very small databases for smart cards and for portable
> embedded systems is deeply constrained by the peculiar features of the
> physical medium. We propose a joint approach to the logical and physical
> database design phases and evaluate several ...
>
> **Keywords**: Design methodology, access methods, data structures, flash
> memory, personal information systems, smart card

99 Warehousing and inventory management: a simulation tool to
determine warehouse efficiencies and storage allocations
Joseph G. Macro, Reino E. Salmi
December 2002 **WSC '02:** Proceedings of the 34th conference on Winter
                      simulation: exploring new frontiers
Publisher: Winter Simulation Conference

Full text available: pdf(311.66 KB) Additional Information: full citation, abstract,
                                                           references, cited by

Using ProModel simulation language, a universal warehouse storage
simulation model has been developed. Applications of the model have
been executed with success to analyze the storage capacity and rack
efficiency of a medium volume, low stock-keeping ...

100 A case study in application I/O on Linux clusters
Robert Ross, Daniel Nurmi, Albert Cheng, Michael Zingale
November 2001 **Supercomputing '01:** Proceedings of the 2001 ACM/IEEE
            conference on Supercomputing (CDROM)
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(213.85 KB)   references, cited by, index
                                                   terms

A critical but often ignored component of system performance is the I/O
system. Today's applications demand a great deal from underlying
storage systems and software, and both high-performance distributed
storage and high level interfaces have been developed ...

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101 <u>Performance directed energy management for main memory and disks</u>
Xiaodong Li, Zhenmin Li, Francis David, Pin Zhou, Yuanyuan Zhou, Sarita Adve, Sanjeev Kumar
December 2004 **ASPLOS-XI: ACM SIGOPS Operating Systems Review**, Volume 38 Issue 5
Publisher: ACM

Full text available: 📄 <u>pdf(658.89 KB)</u>

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>cited by</u>, <u>index terms</u>

Much research has been conducted on energy management for memory and disks. Most studies use control algorithms that dynamically transition devices to low power modes after they are idle for a certain threshold period of time. The control algorithms ...

Keywords: adaptation algorithms, control algorithms, low power design, memory and disk energy management, multiple power mode device

102 <u>Provable bounds for portable and flexible privacy-preserving access</u>
Marina Blanton, Mikhail J. Atallah
June 2005 **SACMAT '05:** Proceedings of the tenth ACM symposium on Access control models and technologies
Publisher: ACM

Full text available: 📄 <u>pdf(159.61 KB)</u>

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this work we address the problem of portable and flexible privacy-preserving access rights for large online data repositories. *Privacy-preserving* access control means that the service provider can neither learn what access rights a customer ...

Keywords: algorithm analysis, compact policy representation, minimal perfect hash functions, order-preserving minimal perfect hash functions, portable access rights

103 <u>Scientific data management in the coming decade</u>

Jim Gray, David T. Liu, Maria Nieto-Santisteban, Alex Szalay, David J. DeWitt, Gerd Heber
December 2005 **ACM SIGMOD Record**, Volume 34 Issue 4
Publisher: ACM

Full text available: 📄 pdf(150.14 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Scientific instruments and computer simulations are creating vast data stores that require new scientific methods to analyze and organize the data. Data volumes are approximately doubling each year. Since these new instruments have extraordinary precision, ...

104 An efficient accessing technique for Taiwanese phonetic transcriptions
Jiann-Cherng Shieh
March 2003 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 2 Issue 1
Publisher: ACM

Full text available: 📄 pdf(264.05 KB)

Additional Information: full citation, abstract, references, index terms

Recently, the Taiwan government has been enthusiastically promoting the study of the languages of her native inhabitants, including Taiwanese. Hence the focus of our research is to design and develop an efficient retrieval technique for phonetic transcriptions. ...

Keywords: Chinese remainder theorem, Hashing function design, Taiwanese phonetic transcriptions, minimal perfect hashing function

105 Toolkit: Scripting Web Services Prototypes
Christopher Vincent
March 2003 **Queue**, Volume 1 Issue 1
Publisher: ACM

Full text available: 📄 pdf(295.67 KB) 📄 html(21.95 KB)

Additional Information: full citation, index terms

106 Context representation, transformation and comparison for ad hoc product data exchange
Jingzhi Guo, Chengzheng Sun
November 2003 **DocEng '03:** Proceedings of the 2003 ACM symposium on Document engineering
Publisher: ACM

Full text available: 📄 pdf(275.65 KB)

Additional Information: full citation, abstract, references, cited by, index terms

Product data exchange is the precondition of business interoperation between Web-based firms. However, millions of small and medium sized enterprises (SMEs) encode their Web product data in ad hoc formats for electronic product catalogues. This prevents ...

Keywords: XML product map, XPM, ad hoc product data exchange, concept, context comparison, context representation, context transformation, electronic commerce, electronic product catalogue, product data integration, semantics

107 Retrospective on Aurora

Hari Balakrishnan, Magdalena Balazinska, Don Carney, Uğur Çetintemel, Mitch Cherniack, Christian Convey, Eddie Galvez, Jon Salz, Michael Stonebraker, Nesime Tatbul, Richard Tibbetts, Stan Zdonik
December 2004 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 13 Issue 4
Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(349.43 KB)   Additional Information: full citation, abstract, cited by, index terms

This experience paper summarizes the key lessons we learned . throughout the design and implementation of the Aurora stream-processing engine. For the past 2 years, we have built five stream-based applications using Aurora. We first describe in detail ...

Keywords: Data stream management, Distributed stream processing, Monitoring applications, Quality-of-service, Stream-processing engines

108 Towards dynamic data grid framework for eResearch

A. B. M. Russel, Asad I. Khan
January 2006 **ACSW Frontiers '06: Proceedings of the 2006 Australasian workshops on Grid computing and e-research - Volume 54**, Volume 54 .
Publisher: Australian Computer Society, Inc.

Full text available: pdf(466.48 KB)   Additional Information: full citation, abstract, references, index terms

The scale at which scientific data is produced will undergo a massive change in the near future. Many sophisticated scientific discovery laboratories or the installation of sensor networks would produce a large amount of data. Research in protein crystallography ...

Keywords: CIMA, SRB, data grid, eResearch, gridFTP

109 Community systems research at Yahoo!

Community Systems Group
September 2007 **ACM SIGMOD Record**, Volume 36 Issue 3
Publisher: ACM

Full text available: pdf(253.55 KB)   Additional Information: full citation, abstract, references, index terms

The web and its continued evolution present unprecedented opportunities for database researchers and practitioners to deliver unique user experiences that are not possible traditionally, e.g., mass collaborations through (automatically) established online ...

Keywords: web community, web data management, web-scale system

110 A unified system-level modeling and simulation environment for MPSoC design: MPEG-4 decoder case study
Víctor Reyes, Wido Kruijtzer, Tomás Bautista, Ghiath Alkadi, Antonio Núñez
March 2006 **DATE '06:** Proceedings of the conference on Design, automation and test in Europe: Proceedings
Publisher: European Design and Automation Association

Full text available: pdf(269.09 KB)   Additional Information: full citation, abstract, references

New generation Electronic System-Level design tools are the key to overcome the complexity and the increasing design productivity gap in the development of future Multiprocessor Systems-on-Chip. This paper presents a SystemC-based system-level simulation ...

111 Formal semantics of APL: a review of initial findings
Phil Chastney
July 2002 **APL '02:** Proceedings of the 2002 conference on APL: array processing languages: lore, problems, and applications
Publisher: ACM

Full text available: pdf(83.89 KB) Additional Information: full citation, references

112 Two heads are better than two tapes
Tao Jiang, Joel I. Seiferas, Paul M. B. Vitányi
March 1997 **Journal of the ACM (JACM),** Volume 44 Issue 2
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(338.50 KB)   references, cited by, index terms

We show that a Turing machine with two single-head one-dimensional tapes cannot recognize the set.

113 Lessons and challenges in automating data dependability
Kimberly Keeton, Dirk Beyer, Jeffrey Chase, Arif Merchant, Cipriano Santos, John Wilkes
September 2004 **EW11:** Proceedings of the 11th workshop on ACM SIGOPS European workshop
Publisher: ACM

Full text available: pdf(175.67 KB)   Additional Information: full citation, abstract, references, cited by

Designing and managing dependable systems is a difficult endeavor. In this paper, we describe challenges in this vast problem space, including provisioning and allocating shared resources, adaptively managing system dependability, expressing dependability ...

114 MySQL deserves a double take
Reuven M. Lerner

April 2007 **Linux Journal**,   Volume 2007 Issue 156
Publisher: Specialized Systems Consultants, Inc.
Full text available: html(16.06 KB) Additional Information: full citation, index terms

115 A compiler framework for speculative analysis and optimizations

Jin Lin, Tong Chen, Wei-Chung Hsu, Pen-Chung Yew, Roy Dz-Ching Ju, Tin-Fook Ngai, Sun Chan
May 2003 **PLDI '03: ACM SIGPLAN Notices**,   Volume 38 Issue 5
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(323.88 KB)   references, cited by, index terms

Speculative execution, such as control speculation and data speculation, is an effective way to improve program performance. Using edge/path profile information or simple heuristic rules, existing compiler frameworks can adequately incorporate and exploit ...

Keywords: data speculation, partial redundancy elimination, register promotion, speculative SSA form, speculative weak update

116 Bug isolation via remote program sampling

Ben Liblit, Alex Aiken, Alice X. Zheng, Michael I. Jordan
May 2003 **PLDI '03: ACM SIGPLAN Notices**,   Volume 38 Issue 5
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(258.37 KB)   references, cited by, index terms

We propose a low-overhead sampling infrastructure for gathering information from the executions experienced by a program's user community. Several example applications illustrate ways to use sampled instrumentation to isolate bugs. Assertion-dense code ...

Keywords: assertions, bug isolation, feature selection, logistic regression, random sampling, statistical debugging

117 ULoad: choosing the right storage for your XML application

Andrei Arion, Véronique Benzaken, Ioana Manolescu, Ravi Vijay
August 2005 **VLDB '05:** Proceedings of the 31st international conference on Very large data bases
Publisher: VLDB Endowment

Full text available: pdf(104.77 KB) Additional Information: full citation, abstract, references, index terms

A key factor for the outstanding success of database management systems is *physical data independence:* queries, and application programs, are able to refer to the data at the logical level, ignoring the details on how the data is physically stored ...

118

◈ Design and evaluation of a selective assembly station for high
precision scroll compressor shells

Arne Thesen, Akachai Jantayavichit
December 1999 **WSC '99: Proceedings of the 31st conference on
Winter simulation: Simulation---a bridge to the future
- Volume 1**, Volume 1
Publisher: ACM

Full text available: 🔲 pdf(167.24 KB) Additional Information: full citation, references, index
terms

119 A compiler framework for speculative analysis and optimizations

◈ Jin Lin, Tong Chen, Wei-Chung Hsu, Pen-Chung Yew, Roy Dz-Ching Ju, Tin-
Fook Ngai, Sun Chan
June 2003 **PLDI '03:** Proceedings of the ACM SIGPLAN 2003 conference on
Programming language design and implementation
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: 🔲 pdf(323.88 KB) references, cited by, index
terms

Speculative execution, such as control speculation and data speculation,
is an effective way to improve program performance. Using edge/path
profile information or simple heuristic rules, existing compiler frameworks
can adequately incorporate and exploit ...

Keywords: data speculation, partial redundancy elimination, register
promotion, speculative SSA form, speculative weak update

120 A compiler framework for speculative optimizations

◈ Jin Lin, Tong Chen, Wei-Chung Hsu, Pen-Chung Yew, Roy Dz-Ching Ju, Tin-
Fook Ngai, Sun Chan
September 2004 **ACM Transactions on Architecture and Code
Optimization (TACO)**, Volume 1 Issue 3
Publisher: ACM

Full text available: 🔲 pdf(466.65 KB) Additional Information: full citation, abstract,
references, index terms, review

Speculative execution, such as control speculation or data speculation, is
an effective way to improve program performance. Using edge/path
profile information or simple heuristic rules, existing compiler frameworks
can adequately incorporate and exploit ...

Keywords: Data speculation, partial redundancy elimination, register
promotion, speculative SSA form, speculative weak update

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121 Entirely declarative sensor network systems
David Chu, Arsalan Tavakoli, Lucian Popa, Joseph Hellerstein
September 2006 **VLDB '06:** Proceedings of the 32nd international conference on Very large data bases
Publisher: VLDB Endowment
Full text available: 📄 pdf(386.21 KB) Additional Information: full citation, abstract, references, index terms

The database and sensor network community have both recognized the utility of SQL for interfacing with sensor network systems. Recently there have been proposals to construct Internet protocols declaratively in variants of Datalog. We take these ideas ...

122 An Experimental, Pluggable Infrastructure for Modular Configuration Management Policy Composition
Ronald van der Lingen, Andre van der Hoek
May 2004 **ICSE '04:** Proceedings of the 26th International Conference on Software Engineering
Publisher: IEEE Computer Society
Full text available: 📄 pdf(145.98 KB) Additional Information: full citation, abstract, cited by, index terms

Building a configuration management (CM) system isa difficult endeavor that regularly requires tens of thousandsof lines of code to be written. To reduce this effort,several experimental infrastructures have been developedthat provide reusable repositories ...

123 Power analysis and implementation of a low-power 300 MHz 8-b × 8-b pipelined multiplier
Jinn-Shyan Wang, Po-Hui Yang
January 2000 **ASP-DAC '00:** Proceedings of the 2000 conference on Asia South Pacific design automation
Publisher: ACM
Full text available: 📄 pdf(1.09 MB) Additional Information: full citation, references

124 Data organization and I/O in a parallel ocean circulation model

Chris H. Q. Ding, Yun He

January 1999 **Supercomputing '99:** Proceedings of the 1999 ACM/IEEE
conference on Supercomputing (CDROM)

Publisher: ACM

Full text available: ⬛ pdf(90.16 KB)   Additional Information: full citation, references, cited by,
index terms

125 DFTI---a new interface for Fast Fourier Transform libraries

Ping Tak Peter Tang

December 2005 **ACM Transactions on Mathematical Software (TOMS)**,
Volume 31 Issue 4

Publisher: ACM

Full text available: ⬛ pdf(211.61 KB)   Additional Information: full citation, abstract,
references, index terms

The Fast Fourier Transform (FFT) algorithm that calculates the Discrete
Fourier Transform (DFT) is one of the major breakthroughs in scientific
computing and is now an indispensable tool in a vast number of fields.
Unfortunately, software applications ...

Keywords: API, FFT, interface, software

126 Introducing computer systems from a programmer's perspective

Randal E. Bryant, David R. O'Hallaron

February 2001 **SIGCSE '01:** Proceedings of the thirty-second SIGCSE
technical symposium on Computer Science Education

Publisher: ACM

Additional Information: full citation, abstract,
Full text available: ⬛ pdf(53.60 KB)   references, cited by, index
terms

The course "Introduction to Computer Systems" at Carnegie Mellon
University presents the underlying principles by which programs are
executed on a computer. It provides broad coverage of processor
operation, compilers, operating systems, and networking. ...

127 An improved component model for component based software
engineering

R. Senthil, D. S. Kushwaha, A. K. Misra

July 2007 **ACM SIGSOFT Software Engineering Notes**,   Volume 32 Issue 4

Publisher: ACM

Full text available: ⬛ pdf(574.63 KB)   Additional Information: full citation, abstract,
references, index terms

This paper focuses on Component Based Software Engineering (CBSE)
and generic connectors for the software components. An attempt has
been made to describe n-tier architecture; in particular, data access
architecture in a component based application. ...

Keywords: component-based software engineering, composition, encapsulation, interfaces, pattern, software components

128 Creating a topic map query tool for mobile devices using J2ME and XML
Stefan Seedorf, Axel Korthaus, Markus Aleksy
January 2005 **WISICT '05:** Proceedings of the 4th international symposium
        on Information and communication technologies
Publisher: Trinity College Dublin

Full text available: pdf(136.93 KB) Additional Information: full citation, abstract,
                                       references, cited by

Most of today's enterprises conduct knowledge management initiatives for achieving competitive advantage. Information technology plays a key role in codifying knowledge and distributing it throughout the organization. However, the utilization of mobile ...

129 Object-relational management of complex geographical objects
Hans-Peter Kriegel, Peter Kunath, Martin Pfeifle, Matthias Renz
November 2004 **GIS '04:** Proceedings of the 12th annual ACM international
        workshop on Geographic information systems
Publisher: ACM

Full text available: pdf(191.98 KB) Additional Information: full citation, abstract,
                                       references, index terms

Modern database applications including computer-aided design, multimedia information systems, medical imaging, molecular biology, or geographical information systems impose new requirements on the effective and efficient management of spatial data. Particular ...

Keywords: data management, object decomposition, object-relational database, spatial

130 Developing scientific workflows from heterogeneous services
A. Tsalgatidou, G. Athanasopoulos, M. Pantazoglou, C. Pautasso, T. Heinis,
R. Grønmo, Hjørdis Hoff, Arne-Jørgen Berre, M. Glittum, S. Topouzidou
June 2006 **ACM SIGMOD Record**,   Volume 35 Issue 2
Publisher: ACM

Full text available: pdf(216.73 KB) Additional Information: full citation, abstract,
                                       references, index terms

Scientific WorkFlows (SWFs) need to utilize components and applications in order to satisfy the requirements of specific workflow tasks. Technology trends in software development signify a move from component-based to service-oriented approach, therefore ...

131 A design methodology for space-time adapter
Cyrille Chavet, Philippe Coussy, Pascal Urard, Eric Martin
March 2007 **GLSVLSI '07:** Proceedings of the 17th great lakes symposium

on Great lakes symposium on VLSI
Publisher: ACM

Full text available: ⊞ pdf(555.47 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a solution to efficiently explore the design space of communication adapters. In most digital signal processing (DSP) applications, the overall architecture of the system is significantly affected by communication architecture, so ...

Keywords: RTL design, communication and interface synthesis, digital signal processing and multimedia applications

132 Agile enterprise software development using domain-driven design and test first
Einar Landre, Harald Wesenberg, Jorn Olmheim
October 2007 **OOPSLA '07:** Companion to the 22nd ACM SIGPLAN conference on Object oriented programming systems and applications companion
Publisher: ACM

Full text available: ⊞ pdf(312.94 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we present the experience gained and lessons learned when the IT department at Statoil ASA, a large Oil and Gas company in Norway, applied Domain-Driven design techniques in combination with agile software development practices to assess ...

Keywords: PL/SQL, agile software development, domain-driven design, object databases, object-relational mapping, oracle, relational databases, test driven design, test first, versant

133 ISDL: an instruction set description language for retargetability
George Hadjiyiannis, Silvina Hanono, Srinivas Devadas
June 1997 **DAC '97:** Proceedings of the 34th annual conference on Design automation
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: ⊞ pdf(404.42 KB)   references, cited by, index terms

We present the Instruction Set Description Language,ISDL, a machine description language used to describetarget architectures to a retargetable compiler. The featuresand flexibility of ISDL enable the description of vastly differentarchitectures, in ...

134 Adding parity to the Linux ext3 file system
Himani Apte, Meenali Rungta
January 2007 **ACM SIGOPS Operating Systems Review,** Volume 41 Issue 1
Publisher: ACM

Full text available: ⊞ pdf(314.69 KB)   Additional Information: full citation, abstract, references, index terms

Modern disks no longer operate in a simple "fail-stop" manner, yet

commodity operating systems assume they do. We design and implement a parity based approach to improve the robustness of journaling file systems. We modify the existing ext3 file system ...

135 Network data mining: methods and techniques for discovering deep linkage between attributes

John Galloway, Simeon J. Simoff

January 2006 **APCCM '06: Proceedings of the 3rd Asia-Pacific conference on Conceptual modelling - Volume 53,** Volume 53

Publisher: Australian Computer Society, Inc.

Full text available: 📄 pdf(6.98 MB)   Additional Information: full citation, abstract, references, index terms

Network Data Mining identifies emergent networks between myriads of individual data items and utilises special algorithms that aid visualisation of 'emergent' patterns and trends in the linkage. It complements conventional data mining methods, which ...

136 Software design patterns for TinyOS

David Gay, Philip Levis, David Culler

September 2007 **ACM Transactions on Embedded Computing Systems (TECS),** Volume 6 Issue 4

Publisher: ACM

Full text available: 📄 pdf(372.37 KB)   Additional Information: full citation, abstract, references, index terms

We present design patterns used by software components in the TinyOS sensor network operating system. They differ significantly from traditional software design patterns because of the constraints of sensor networks and to TinyOS's focus on static allocation ...

Keywords: Design Patterns, TinyOS, embedded systems, nesC

137 Offline compression for on-chip ram

Nathan Dean Cooprider, John David Regehr

June 2007 **PLDI '07: ACM SIGPLAN Notices,** Volume 42 Issue 6

Publisher: ACM

Full text available: 📄 pdf(192.98 KB)   Additional Information: full citation, abstract, references, index terms

We present *offline RAM compression*, an automated source-to-source transformation that reduces a program's data size. Statically allocated scalars, pointers, structures, and arrays are encoded and packed based on the results of a whole-program ...

Keywords: TinyOS, data compression, embedded software, memory optimization, sensor networks, static analysis

138

Speeding up construction of PMR quadtree-based spatial indexes

Gisli R. Hjaltason, Hanan Samet
October 2002 **The VLDB Journal — The International Journal on Very
Large Data Bases**, Volume 11 Issue 2
Publisher: Springer-Verlag New York, Inc.

Full text available: 📄 pdf(355.72 KB) Additional Information: <u>full citation</u>, <u>abstract</u>, <u>cited by</u>,
<u>index terms</u>

Spatial indexes, such as those based on the quadtree, are important in
spatial databases for efficient execution of queries involving spatial
constraints, especially when the queries involve spatial joins. In this
paper we present a number of techniques ...

Keywords: Bulk-loading, I/O, Spatial indexing

139 <u>Introducing computer systems from a programmer's perspective</u>
Randal E. Bryant, David R. O'Hallaron
March 2001 **SIGCSE '01: ACM SIGCSE Bulletin**, Volume 33 Issue 1
Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,
Full text available: 📄 pdf(53.60 KB)   <u>references</u>, <u>cited by</u>, <u>index
terms</u>

The course "Introduction to Computer Systems" at Carnegie Mellon
University presents the underlying principles by which programs are
executed on a computer. It provides broad coverage of processor
operation, compilers, operating systems, and networking. ...

140 <u>Representing linear algebra algorithms in code: the FLAME</u>
<u>application program interfaces</u>
Paolo Bientinesi, Enrique S. Quintana-Ortí, Robert A. van de Geijn
March 2005 **ACM Transactions on Mathematical Software (TOMS)**,
Volume 31 Issue 1
Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,
Full text available: 📄 pdf(415.14 KB)   <u>references</u>, <u>cited by</u>, <u>index
terms</u>

In this article, we present a number of Application Program Interfaces
(APIs) for coding linear algebra algorithms. On the surface, these APIs
for the MATLAB M-script and C programming languages appear to be
simple, almost trivial, extensions of those ...

Keywords: Application program interfaces, formal derivation, high-
performance libraries, linear algebra

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141 Self organizing ambient control space: an ambient network architecture for dynamic network interconnection
Péter Kersch, Róbert Szabo, Zoltán Lajos Kis, Márk Erdei, Balázs Kovács
September 2005 **DIN '05:** Proceedings of the 1st ACM workshop on Dynamic interconnection of networks
Publisher: ACM

Full text available: 🔁 pdf(116.66 KB) Additional Information: full citation, abstract, references, index terms

One of the major challenges in ambient networking is to provide interworking between heterogeneous and dynamically changing networks. This paper presents a novel network and system architecture enabling network self-organization and dynamic network composition. ...

Keywords: network composition, network management, overlay networks, self organizing networks

142 Randomized computations on large data sets: tight lower bounds
Martin Grohe, André Hernich, Nicole Schweikardt
June 2006 **PODS '06:** Proceedings of the twenty-fifth ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems
Publisher: ACM

Full text available: 🔁 pdf(286.21 KB) Additional Information: full citation, abstract, references, index terms

We study the randomized version of a computation model (introduced in [9, 10]) that restricts random access to external memory and internal memory space. Essentially, this model can be viewed as a powerful version of a data stream model that puts no ...

Keywords: XML, complexity, data streams/real-time data, query processing/query optimization, semi-structured data

143 An interview with Marten Mickos
Glyn Moody
January 2007 **Linux Journal**, Volume 2007 Issue 153

Publisher: Specialized Systems Consultants, Inc.

Full text available: [icon] html(2.05 MB)   Additional Information: full citation, abstract, index terms

Marten Mickos chats about the success of MySQL.

144 Modelling retrieval models in a probabilistic relational algebra with a new operator: the relational Bayes
Thomas Roelleke, Hengzhi Wu, Jun Wang, Hany Azzam
January 2008 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 17 Issue 1
Publisher: Springer-Verlag New York, Inc.
Additional Information: full citation, abstract

This paper presents a probabilistic relational modelling (implementation) of the major probabilistic retrieval models. Such a high-level implementation is useful since it supports the ranking of any object, it allows for the reasoning across structured ...

Keywords: DB + IR integration, Probabilistic databases, Probabilistic relational modelling, Retrieval models

145 Efficient OLAP operations for spatial data using peano trees
[icon] Baoying Wang, Fei Pan, Dongmei Ren, Yue Cui, Qiang Ding, William Perrizo
June 2003 **DMKD '03:** Proceedings of the 8th ACM SIGMOD workshop on Research issues in data mining and knowledge discovery
Publisher: ACM

Full text available: [icon] pdf(115.51 KB)   Additional Information: full citation, abstract, references

Online Analytical Processing (OLAP) is an important application of data warehouses. With more and more spatial data being collected, such as remotely sensed images, geographical information, digital sky survey data, efficient OLAP for spatial data is ...

Keywords: Online Analytical Processing (OLAP), P-Trees, PD-cube, spatial data

146 Securely combining public-key cryptosystems
[icon] Stuart Haber, Benny Pinkas
November 2001 **CCS '01:** Proceedings of the 8th ACM conference on Computer and Communications Security
Publisher: ACM

Full text available: [icon] pdf(416.51 KB)   Additional Information: full citation, abstract, references, cited by, index terms

It is a maxim of sound computer-security practice that a cryptographic key should have only a single use. For example, an RSA key pair should be used only for public-key encryption or only for digital signatures, and not for both.In this paper we show ...

147 Vex—A CAD toolbox
Jules P. Bergmann, Mark A. Horowitz
June 1999 **DAC '99:** Proceedings of the 36th ACM/IEEE conference on
           Design automation
Publisher: ACM

Full text available: pdf(65.80 KB)   Additional Information: full citation, references, cited by,
                                                         index terms

148 Optimized MPEG-4 animation encoder for motion capture data
Marius Preda, Blagica Jovanova, Ivica Arsov, Françoise Prêteux
April 2007 **Web3D '07:** Proceedings of the twelfth international conference
            on 3D web technology
Publisher: ACM

Full text available: pdf(367.48 KB)   Additional Information: full citation, abstract,
                                                        references, index terms

This paper presents first compression results on using the MPEG-4 BBA
standard for encoding motion capture data. We first introduce a detailed
description of the main compression mechanisms used in recently BBA
standard: prediction, frequency transform, ...

Keywords: 3D graphics, MPEG-4 3D graphics standard, animation
compression, motion capture data

149 A compiler approach to fast hardware design space exploration in
FPGA-based systems
Byoungro So, Mary W. Hall, Pedro C. Diniz
May 2002 **PLDI '02: ACM SIGPLAN Notices**, Volume 37 Issue 5
Publisher: ACM

                                            Additional Information: full citation, abstract,
Full text available: pdf(359.71 KB)   references, cited by, index
                                                                   terms

The current practice of mapping computations to custom hardware
implementations requires programmers to assume the role of hardware
designers. In tuning the performance of their hardware implementation,
designers manually apply loop transformations such ...

Keywords: data dependence analysis, design space exploration, loop
transformations, reuse analysis

150 Enhancing team knowledge: instruction vs. experience
D. Smarkusky, R. Dempsey, J. Ludka, F. de Quillettes
February 2005 **SIGCSE '05: ACM SIGCSE Bulletin**, Volume 37 Issue 1
Publisher: ACM

Full text available: pdf(212.10 KB)   Additional Information: full citation, abstract,
                                                        references, index terms

Information technology projects are growing in complexity and require
teams to solve problems and develop solutions. With current
undergraduate, computer science and information systems curricula,

students graduate with technical skills, but lack team ...

Keywords: curricular initiatives, information technology education, software engineering, team knowledge, team process

151 Simulation in practice: challenges of introducing simulation as a decision making tool
Martha A. Centeno, Manuel Carrillo
December 2001 **WSC '01:** Proceedings of the 33nd conference on Winter simulation
Publisher: IEEE Computer Society

Full text available: pdf(199.32 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Over the years, simulation models have been successfully built to observe the behavior of systems. Despite advances in the field and its growth in popularity, when simulation is to be introduced to an organization, there are challenges to be met including ...

152 DELite: database support for embedded lightweight devices
Krithi Ramamritham, Rajkumar Sen
September 2004 **EMSOFT '04:** Proceedings of the 4th ACM international conference on Embedded software
Publisher: ACM

Full text available: pdf(24.43 KB)   Additional Information: full citation, references, index terms, review

Keywords: database management system

153 The design and implementation of a new out-of-core sparse cholesky factorization method
Vladimir Rotkin, Sivan Toledo
March 2004 **ACM Transactions on Mathematical Software (TOMS)**, Volume 30 Issue 1
Publisher: ACM

Full text available: pdf(457.74 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

We describe a new out-of-core sparse Cholesky factorization method. The new method uses the elimination tree to partition the matrix, an advanced subtree-scheduling algorithm, and both right-looking and left-looking updates. The implementation of the ...

Keywords: out-of-core

154 Using properties for uniform interaction in the Presto document system
Paul Dourish, W. Keith Edwards, Anthony LaMarca, Michael Salisbury
November 1999 **UIST '99:** Proceedings of the 12th annual ACM symposium

on User interface software and technology
Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,
<u>references</u>, <u>cited by</u>, <u>index</u>
<u>terms</u>

Full text available: <u>pdf(477.56 KB)</u>

Most document or information management systems rely on hierarchies to organise documents (e.g. files, email messages or web bookmarks). However, the rigid structures of hierarchical schemes do not mesh well with the more fluid nature of everyday document ...

Keywords: document interfaces, document management, document properties, interaction models

155 Processor modeling and code selection for retargetable compilation
J. Van Praet, D. Lanneer, W. Geurts, G. Goossens
July 2001 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**,   Volume 6 Issue 3
Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,
<u>references</u>, <u>cited by</u>, <u>index</u>
<u>terms</u>

Full text available: <u>pdf(869.20 KB)</u>

Embedded processors in electronic systems typically are tuned to a few applications. Development of processor-specific compilers is prohibitively expensive and, as a result, such compilers, if existing, yield code of an unacceptable quality. To improve ...

Keywords: code selection, embedded systems, graph instruction set graph, processor modeling, retargetable code generation, retargetable compilation, system design

156 Handling big dimensions in distributed data warehouses using the DWS technique
Marco Costa, Henrique Madeira
November 2004 **DOLAP '04:** Proceedings of the 7th ACM international workshop on Data warehousing and OLAP
Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,
<u>references</u>, <u>index terms</u>

Full text available: <u>pdf(288.33 KB)</u>

The DWS (Data Warehouse Striping) technique allows the distribution of large data warehouses through a cluster of computers. The data partitioning approach partition the facts tables through all nodes and replicates the dimension tables. The replication ...

Keywords: data warehousing, distributed query execution

157 Offline compression for on-chip ram
Nathan Dean Cooprider, John David Regehr
June 2007 **PLDI '07:** Proceedings of the 2007 ACM SIGPLAN conference on Programming language design and implementation
Publisher: ACM

Additional Information: <u>full citation</u>, <u>abstract</u>,

Full text available:

pdf(192.98 KB)   references, index terms

We present *offline RAM compression*, an automated source-to-source transformation that reduces a program's data size. Statically allocated scalars, pointers, structures, and arrays are encoded and packed based on the results of a whole-program ...

Keywords: TinyOS, data compression, embedded software, memory optimization, sensor networks, static analysis

158 Design patterns and Fortran 90/95

Arjen Markus
April 2006 **ACM SIGPLAN Fortran Forum**, Volume 25 Issue 1
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(178.82 KB)   references, cited by, index
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In the literature on object oriented programming (OO), design patterns are a very popular subject. Apart from any hype that may be connected to the concept, they are supposed to help you look at a programming problem and come up with a robust design ...

159 Abstraction-based intrusion detection in distributed environments

Peng Ning, Sushil Jajodia, Xiaoyang Sean Wang
November 2001 **ACM Transactions on Information and System Security
                (TISSEC)**, Volume 4 Issue 4
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(590.61 KB)   references, cited by, index
                                                    terms, review

Abstraction is an important issue in intrusion detection, since it not only hides the difference between heterogeneous systems, but also allows generic intrusion-detection models. However, abstraction is an error-prone process and is not well supported ...

Keywords: Cooperative information systems, heterogeneous systems, intrusion detection, misuse detection

160 The case for explicit knowledge in documents

Leslie Carr, Timothy Miles-Board, Arouna Woukeu, Gary Wills, Wendy Hall
October 2004 **DocEng '04:** Proceedings of the 2004 ACM symposium on
                Document engineering
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(296.38 KB)   references, cited by, index
                                                    terms

The Web is full of documents which must be interpreted by human readers and by software agents (search engines recommender systems clustering processes <i>etc.</i>). Although Web standards have addressed format obfuscation by using XML schemas ...

Keywords: document structure, knowledge writing, semantic web

Results 141 - 160 of 170 Result page: <u><<</u>   <u>previous</u> <u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u> <u>6</u> <u>7</u> **8** <u>9</u>   <u>next</u>   <u>>></u>

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161 A compiler approach to fast hardware design space exploration in
FPGA-based systems
Byoungro So, Mary W. Hall, Pedro C. Diniz
June 2002 **PLDI '02:** Proceedings of the ACM SIGPLAN 2002 Conference on
Programming language design and implementation
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: 🗎 pdf(359.71 KB)   references, cited by, index
terms

The current practice of mapping computations to custom hardware
implementations requires programmers to assume the role of hardware
designers. In tuning the performance of their hardware implementation,
designers manually apply loop transformations such ...

Keywords: data dependence analysis, design space exploration, loop
transformations, reuse analysis

162 Bug isolation via remote program sampling
Ben Liblit, Alex Aiken, Alice X. Zheng, Michael I. Jordan
June 2003 **PLDI '03:** Proceedings of the ACM SIGPLAN 2003 conference on
Programming language design and implementation
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: 🗎 pdf(258.37 KB)   references, cited by, index
terms

We propose a low-overhead sampling infrastructure for gathering
information from the executions experienced by a program's user
community. Several example applications illustrate ways to use sampled
instrumentation to isolate bugs. Assertion-dense code ...

Keywords: assertions, bug isolation, feature selection, logistic
regression, random sampling, statistical debugging

163 Formal semantics of APL: a review of initial findings
Phil Chastney

June 2002 **APL '02: ACM SIGAPL APL Quote Quad**,   Volume 32 Issue 4
Publisher: ACM
Full text available: pdf(83.89 KB) Additional Information: full citation, references

164 A column pre-ordering strategy for the unsymmetric-pattern multifrontal method
Timothy A. Davis
June 2004 **ACM Transactions on Mathematical Software (TOMS)**,
Volume 30 Issue 2
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(401.79 KB)   references, cited by, index
terms

A new method for sparse LU factorization is presented that combines a
column pre-ordering strategy with a right-looking unsymmetric-pattern
multifrontal numerical factorization. The column ordering is selected to
give a good a priori upper bound on fill-in ...

Keywords: linear equations, multifrontal method, ordering methods,
sparse nonsymmetric matrices

165 A framework for symmetric band reduction
Christian H. Bischof, Bruno Lang, Xiaobai Sun
December 2000 **ACM Transactions on Mathematical Software (TOMS)**,
Volume 26 Issue 4
Publisher: ACM

Additional Information: full citation, abstract,
Full text available: pdf(166.19 KB)   references, cited by, index
terms, review

We develop an algorithmic framework for reducing the bandwidth of
symmetric matrices via orthogonal similarity transformations. This
framework includes the reduction of full matrices to banded or tridiagonal
form and the reduction of banded matrices ...

Keywords: blocked Householder transformations, symmetric matrices,
tridiagonalization

166 Enhancing team knowledge: instruction vs. experience
D. Smarkusky, R. Dempsey, J. Ludka, F. de Quillettes
February 2005 **SIGCSE '05:** Proceedings of the 36th SIGCSE technical
symposium on Computer science education
Publisher: ACM

Full text available: pdf(212.10 KB) Additional Information: full citation, abstract,
references, index terms

Information technology projects are growing in complexity and require
teams to solve problems and develop solutions. With current
undergraduate, computer science and information systems curricula,
students graduate with technical skills, but lack team ...

Keywords: curricular initiatives, information technology education,

software engineering, team knowledge, team process

167 <u>TFLOPS PFS: architecture and design of a highly efficient parallel file</u>
<u>system</u>
Sharad Garg
November 1998 **Supercomputing '98:** Proceedings of the 1998 ACM/IEEE
conference on Supercomputing (CDROM)
Publisher: IEEE Computer Society

Full text available: 🔲 <u>html(39.91 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>,
<u>references</u>, <u>cited by</u>

In recent years, many commercial Massively Parallel Processor (MPP)
systems have been available to the computing community. These
systems provide very high processing power (up to hundreds of GFLOPs),
and can scale efficiently with the number of processors. ...

Keywords: I/O nodes, PFS, TFLOPS, compute nodes, fyod, parallel I/O,
parallel file server

168 <u>Algorithm 809: PREQN: Fortran 77 subroutines for preconditioning</u>
<u>the conjugate gradient method</u>
José Luis Morales, Jorge Nocedal
March 2001 **ACM Transactions on Mathematical Software (TOMS)**,
Volume 27 Issue 1
Publisher: ACM

Additional Information: <u>full citation</u>, <u>appendices and</u>
<u>supplements</u>, <u>abstract</u>,
<u>references</u>, <u>cited by</u>, <u>index</u>
<u>terms</u>

Full text available: 🔲 <u>pdf(90.21 KB)</u>

PREQN is a package of Fortran 77 subroutins for automatically generating
preconditioners for the conjugate gradient method. It is designed for
solving a sequence of linear systems Aix = bi, ...

Keywords: Hessian-free Newton method, conjugate gradient method,
limited-memory method, preconditioning, quasi-Newton method

169 <u>Deterministic Processor Scheduling</u>
Mario J. Gonzalez, Jr.
September 1977 **ACM Computing Surveys (CSUR)**,   Volume 9 Issue 3
Publisher: ACM

Full text available: 🔲 <u>pdf(2.86 MB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>cited by</u>,
<u>index terms</u>

170 <u>An Algorithm to Design the Memory Configuration of a Computer</u>
<u>Network</u>
D. G. Kafura, V. Y. Shen
July 1978 **Journal of the ACM (JACM)**,   Volume 25 Issue 3
Publisher: ACM

Full text available: 🔲 <u>pdf(722.37 KB)</u>   Additional Information: <u>full citation</u>, <u>references</u>, <u>cited</u>
<u>by</u>, <u>index terms</u>

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